

Denny A. Frost
DEPUTY OIL & GAS INSPECTOR

JICARILLA APACHE TRIBE

ENVIRONMENTAL PROTECTION OFFICE

FEB 08 1999

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 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 ☒

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)	<i>0</i>
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)	<i>0</i>
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)	<i>0</i>
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)	<i>0</i>

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)	<i>0</i>

RANKING SCORE (TOTAL POINTS): *0*

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

Remediation Method: Excavation X Approx. Cubic Yards 521

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

Other _____

Remediation Location: Onsite X 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: 32.5(N+5) X 32.5(E+W) X 10'(D)

Ground Water Encountered: No X 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 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 10-22-98 PRINTED NAME Ray Haston

SIGNATURE Ray Haston AND TITLE Environmental Technician

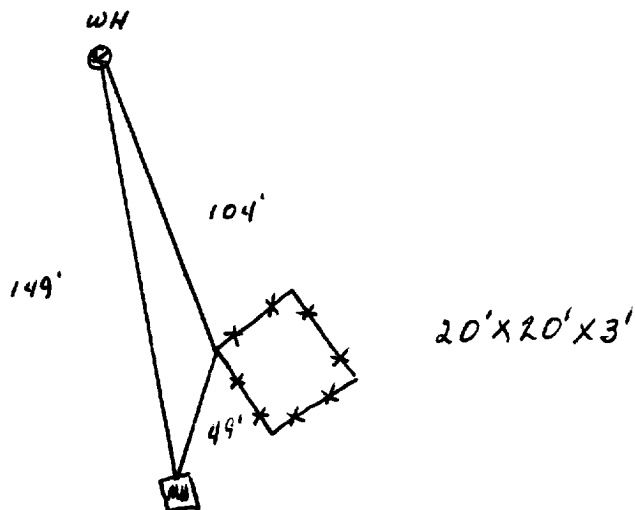
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON): _____

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

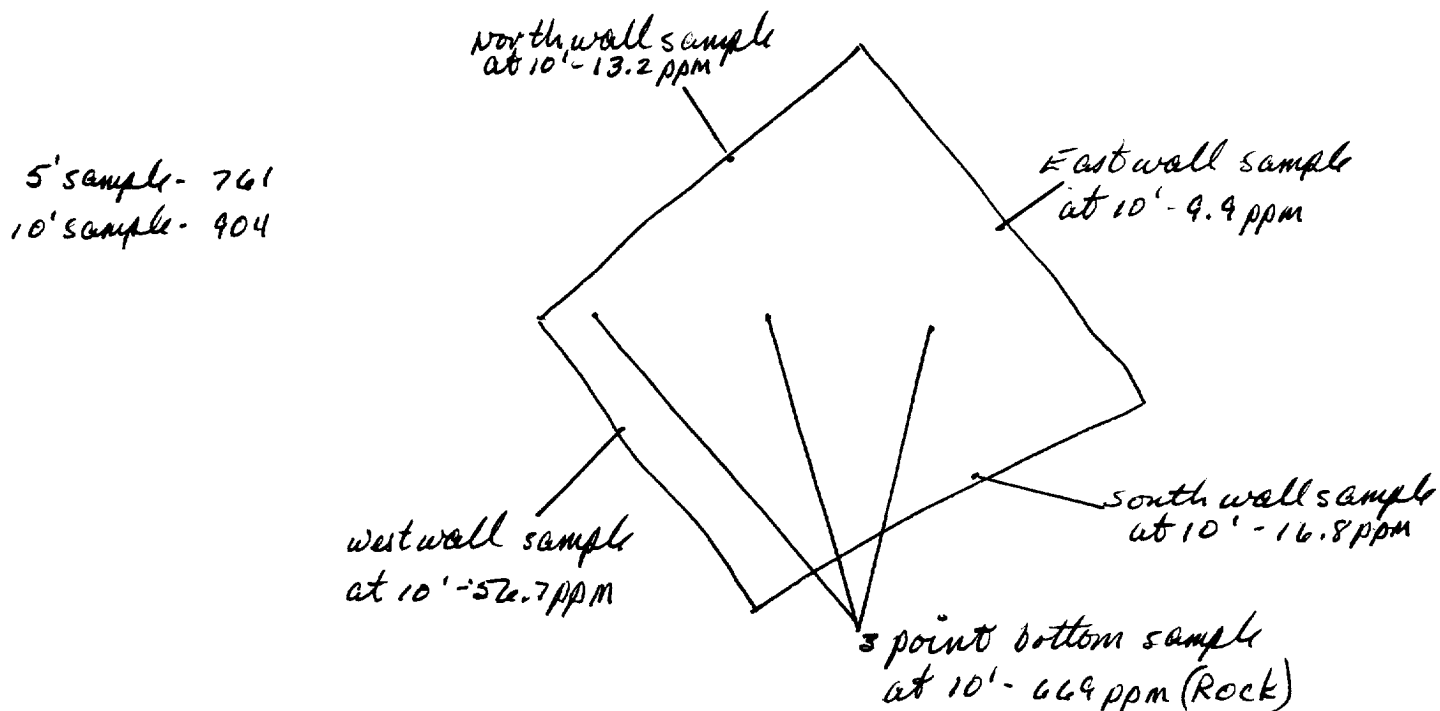
Jicarilla K3
 (P) 1-25N-5W
 CONOCO
 10-9-98

↑
N



Excavation sampling

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



not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 21-Oct-98

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

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-Oct-98

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

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS						
	SW8015					
T/R Hydrocarbons: C10-C28	84	25		mg/Kg	1	10/19/98
BTEX						
	SW8020A					
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

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

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OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 21-Oct-98

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

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	36	25		mg/Kg	1	10/14/98

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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**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> <u>Farmington, NM 87401</u>	
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> 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>	Final Closure Sampling: Sampling Date: <u>11/30/98</u> Time <u>1223</u> Sampling Results: Field Headspace (ppm) <u>1.2</u> TPH (ppm) <u>78</u> Method <u>8015</u> Other _____
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> SIGNATURE <u>Ray Haston</u>	PRINTED NAME <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 <input type="checkbox"/> (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

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

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

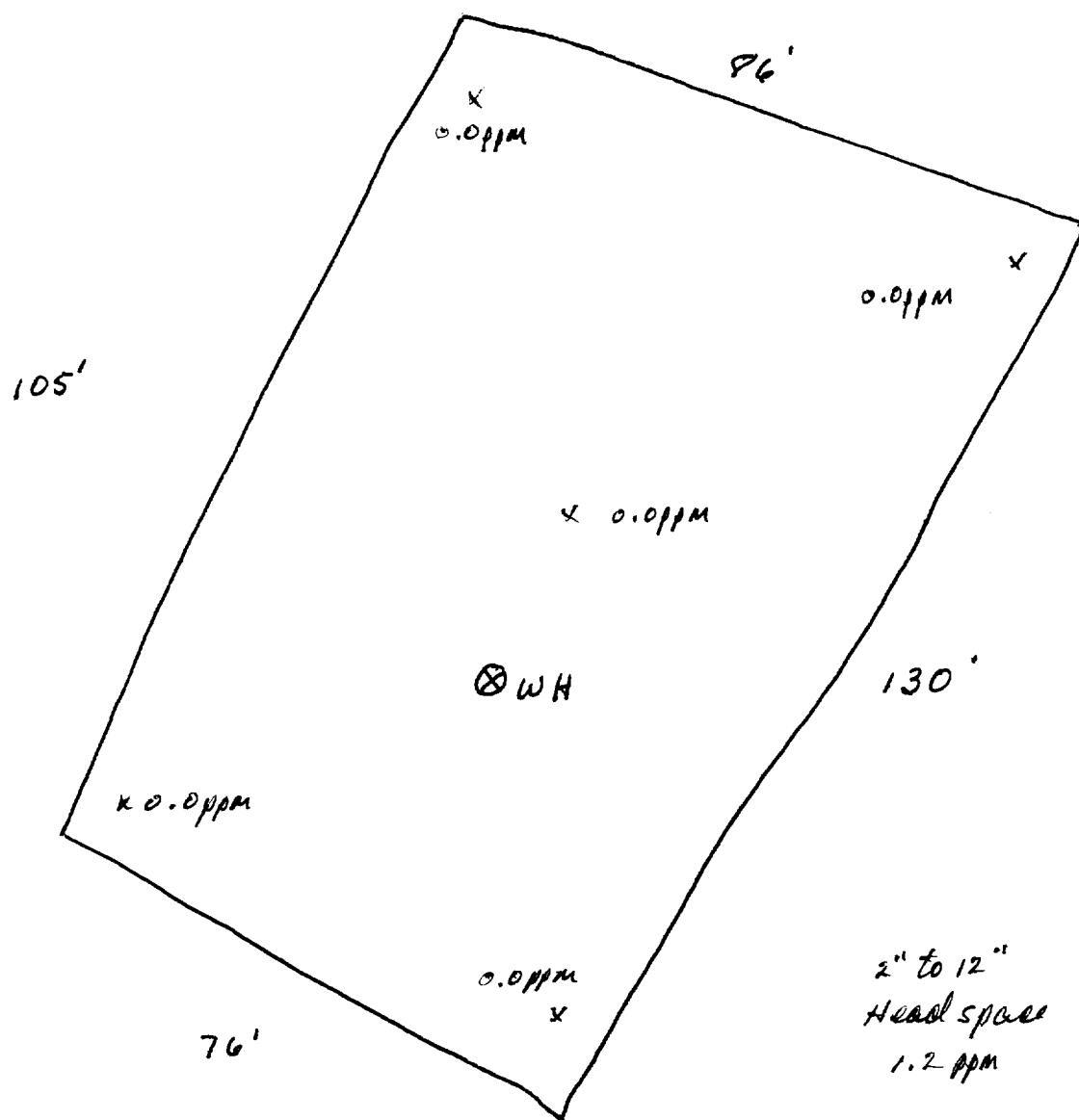
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Jicarilla K3
(N) 1-25N-5W
CONOCO
521 yds.



not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 04-Dec-98

CLIENT: PNM - Public Service Company of NM

Project: Jicarilla Pit Remediation Landfarms

Lab Order: 9812001

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



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Date: 04-Dec-98

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Lab ID:	9812001-05A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation Landfarms	Collection Date:	11/30/98 12:23:00 PM
		COC Record:	7444

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
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T/R Hydrocarbons: C10-C28	78	25		mg/Kg	1	12/3/98

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