

Deming
DEPUTY OIL & GAS INSPECTOR

JICARILLA APACHE TRIBE

FEB 08 1999

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 K16
Location: Unit: D Sec. 12 T. 25N R. 5W County Rio Arriba
Pit Type: Separator X Dehydrator Other
Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 20' width 20' depth 3'
(Attach diagram) Reference: wellhead X other
Footage from reference: 62'
Direction from reference: 45 Degrees East North
X West of South X

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)	<u>0</u>
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)	<u>0</u>

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)	<u>0</u>
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)	<u>0</u>
Greater than 100 feet	(0 points)	

Distance to Nearest Lake, Playa, or Watering Pond:

(Horizontal distance to all downgradient lakes, playes, and livestock or wildlife water ponds)

Less than or equal to 100 feet	(10 points)	<u>0</u>
Greater than 100 feet	(0 points)	

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 10-8-98

Date Completed: 12/15/98

Remediation Method: Excavation X

Approx. Cubic Yards 44 33

(Check all appropriate sections)

Landfarmed X

Amount Landfarmed (cubic yds): 44 33

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 dimensions: 14'(N+S) x 21'(E+W) x 3'(D)

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit Closure Sampling:

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

Sample Location

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

Sample depth

3'

Sample date

10-9-98

Sample time

0735 0730

Sample Results

Soil: Benzene (ppm)

N/D

Water: Benzene (ppb)

Total BTEX (ppm)

20.84

Toluene (ppb)

Field headspace (ppm)

441

Ethylbenzene (ppb)

TPH 2200 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 Heston

SIGNATURE

Ray Heston

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:

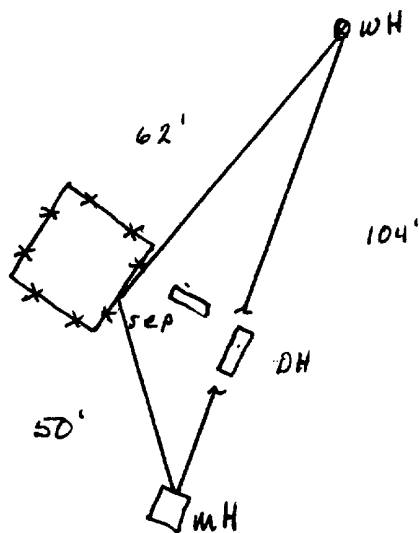
Kearney

DATE:

11-2-98

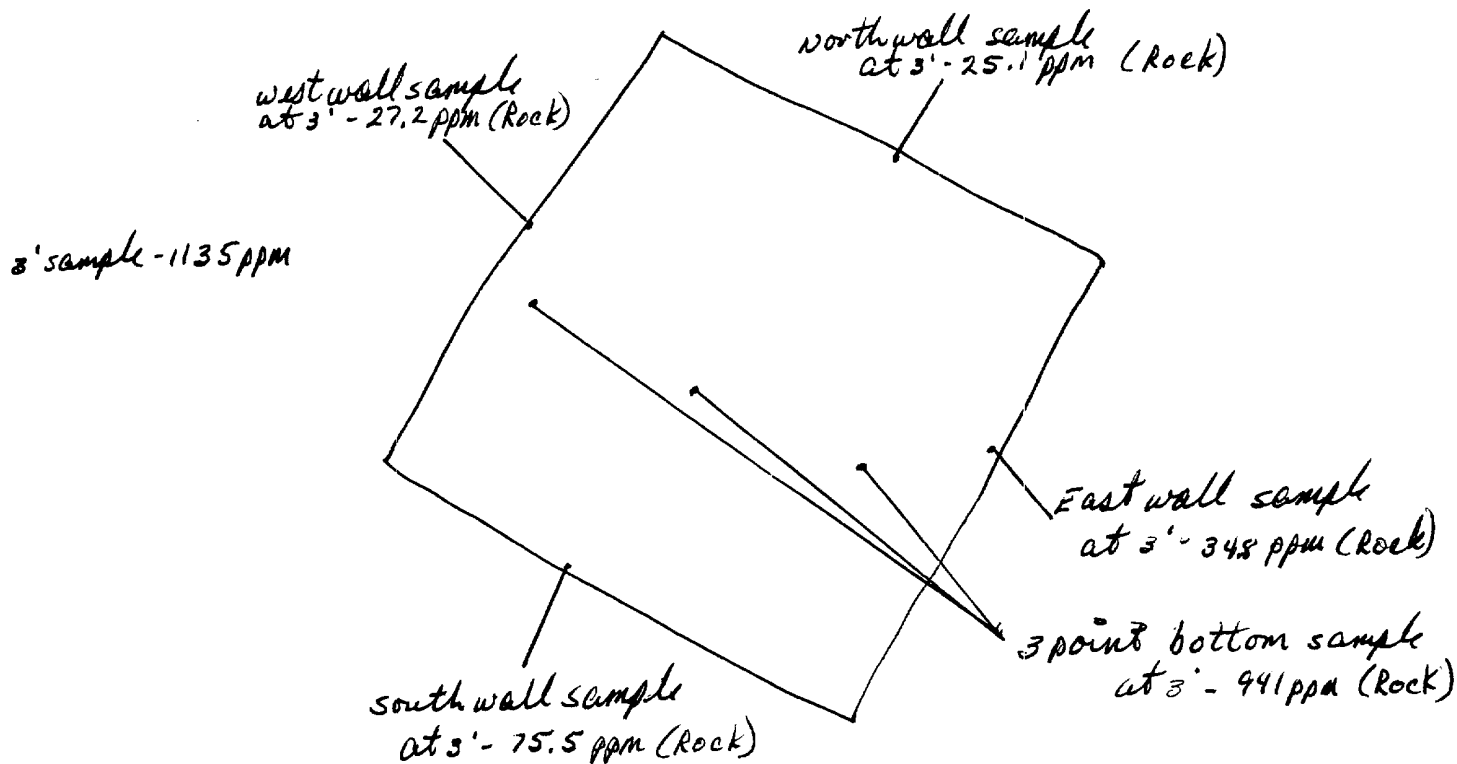
Jicarilla K16
 (D) 12-25N-5W
 CONOCO
 10-P-4P

↑
N



Excavation Sampling

19'(N+S) X 21'(E+W) X 3'(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
Work Order: 9810028
Lab ID: 9810028-01A **Matrix:** SOIL
Project: Jicarilla Pit Remediation

Client Sample Info: Jicarilla K16
Client Sample ID: 9810090730; 3pt. Comp Bottom
Collection Date: 10/9/98 7:30:00 AM
COC Record: 5764

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	2200	25		mg/Kg	1	10/19/98
BTEX		SW8020A				Analyst: HR
Benzene	ND	50		µg/Kg	50	10/16/98
Toluene	2500	100		µg/Kg	50	10/16/98
Ethylbenzene	940	50		µg/Kg	50	10/16/98
m,p-Xylene	14000	100		µg/Kg	50	10/16/98
o-Xylene	3400	50		µg/Kg	50	10/16/98

20,840
20.840 ppm *or*

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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1 of 1

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 K16
Work Order:	9810028	Client Sample ID:	9810090735; 4pt. Comp Walls
Lab ID:	9810028-02A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	10/9/98 7:35:00 AM
		COC Record:	5764

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	74	25		mg/Kg	1	10/19/98
BTEX		SW8020A				Analyst: HR
Benzene	ND	1		µg/Kg	1	10/16/98
Toluene	4.9	2		µg/Kg	1	10/16/98
Ethylbenzene	13	1		µg/Kg	1	10/16/98
m,p-Xylene	320	2		µg/Kg	1	10/16/98
o-Xylene	99	1		µg/Kg	1	10/16/98

436.9
• 436.9 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

1 of 1

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**ANALYTICAL REPORT****Date:** 21-Oct-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla K16
Work Order:	9810028	Client Sample ID:	9810090740; North Wall
Lab ID:	9810028-03A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	10/9/98 7:40:00 AM
		COC Record:	5764

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	120	25		mg/Kg	1	10/19/98
BTEX		SW8020A				Analyst: HR
Benzene	ND	1		µg/Kg	1	10/16/98
Toluene	ND	2		µg/Kg	1	10/16/98
Ethylbenzene	11	1		µg/Kg	1	10/16/98
m,p-Xylene	96	2		µg/Kg	1	10/16/98
o-Xylene	33	1		µg/Kg	1	10/16/98

140
~~0.140~~
 0.140 ppm

Qualifiers:

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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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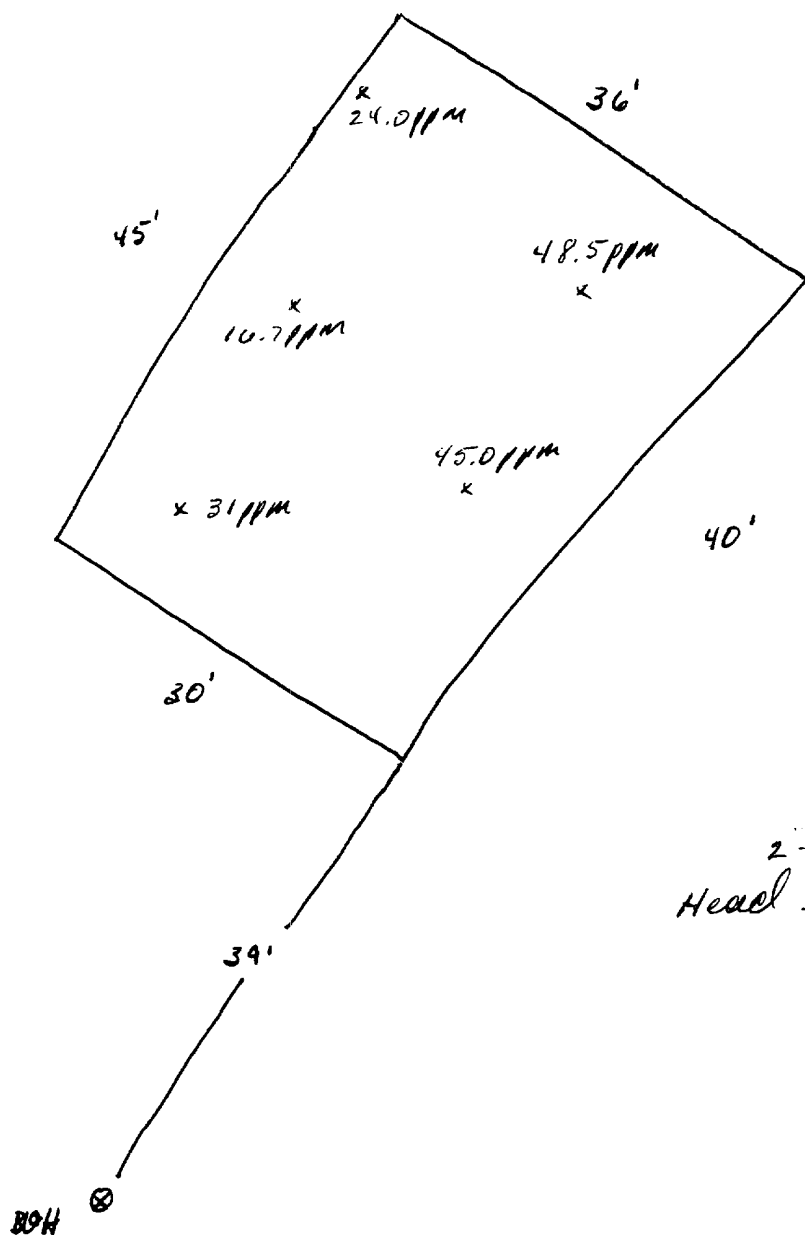
SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL GAS
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services (<u>CONOCO</u>) Telephone: <u>324-3764</u>	
Address: <u>603 W. Elm Street Farmington, NM 87401</u>	
Facility or Well Name: <u>Jicarilla K16</u>	
Location: Unit: <u>D</u> Sec. <u>12</u> T. <u>25</u> N R. <u>5</u> W County <u>Rio Arriba</u>	
Land Type: <u>Jicarilla Apache</u>	
Date Remediation Started: <u>10-8-98</u> Date Completed: <u>11-24-98</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>44 33RD</u>	
Composted _____	
Other <u>Land farm blocked off into sections; pit backfilled from borrow pit</u>	
Depth to Ground Water: (pts.) <u>0</u>	Final Closure Sampling: Sampling Date: <u>1116</u> Time <u>1320</u> Sampling Results: Field Headspace (ppm) <u>37.4</u> TPH (ppm) <u>4000</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>	
Ranking Score (Total Points): <u>0</u>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE <u>12-12-98</u>	PRINTED NAME <u>Roy Burnham Ray Haston</u>
SIGNATURE <u>Ray Haston</u>	AND TITLE <u>Environmental Technician III</u>
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE	
APPROVED: YES <u>X</u> NO _____ (REASON) <u>NO Backfill</u>	
SIGNED: <u>Ken C Merrill</u>	DATE: <u>12-15-98</u>

Jicarilla K16
(D) 12-25N-5W
Conoco
44 yds

↑
N



2'-12"
Head space 37.4 ppm

not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 30-Nov-98

CLIENT: PNM - Public Service Company of NM
Project: Jicarilla Pit Remediation
Lab Order: 9811057

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: 30-Nov-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla K-16 LF
Work Order:	9811057	Client Sample ID:	9811161320 6pt Composite
Lab ID:	9811057-05A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	11/16/98 1:20:00 PM
		COC Record:	7403

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	4000	25		mg/Kg	1	11/24/98

*Sample blended off into/existing location, pit backfilled
from borrow pit*

Qualifiers:

PQL - Practical Quantitation Limit

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S - Spike Recovery outside accepted recovery limits

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