

George L. Frost
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

Approval

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 K20*

Location: Unit: *1* Sec. *1* T. *25 N* R. *5 W* 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 *X* other _____

Footage from reference: *109'*

Direction from reference: *10* Degrees *K* East North _____
_____ 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)
Greater than 100 feet (0 points) *0*

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) *0*

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) *0*

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) *0*

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) *0*

RANKING SCORE (TOTAL POINTS): *0*

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

Remediation Method: Excavation X Approx. Cubic Yards 294

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds): 294

Other _____

Remediation Location: Onsite X Offsite _____

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

General Description of Remedial Action:

Removed contaminated soil from all four sidewalls and bottom as to get a below 100 ppm headspace reading
Final Excavation Dimensions: 14' (N+S) x 22' (E+W) x 14' (D)

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit Closure Sampling:

Sample Location North East, South and West sidewalls and

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

Sample depth a three point composite of the bottom

Sample date 9-10-98 Sample time 1015

Sample Results

Soil: Benzene (ppm) _____ Water: Benzene (ppb) _____

Total BTEX (ppm) _____ Toluene (ppb) _____

Field headspace (ppm) 35.2 Ethylbenzene (ppb) _____

TPH N/D ppm Method P015 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 10-8-98 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: Ken C. M... DATE: 11-2-98

Jicarilla K20

NW/NE-2-25N-5W

CONOCO

↑
N



Excavation sampling

19'(N+S) X 22'(E+W) X 19' (D)

West wall sample
at 16' - 1.2 ppm

North wall sample
at 16' - 4.6 ppm

East wall sample
at 16' - 13.7 ppm

Bottom sample
at 18' - 35.2 ppm

South wall sample
at 16' - 10.1 ppm

5' sample - 630 ppm
10' sample - 710 ppm
15' sample - 1120 ppm
18' sample - 45 ppm

not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 15-Sep-98

CLIENT: PNM - Public Service Company of NM

Project: Jicarilla K20

Lab Order: 9809022

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: 15-Sep-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla K20
Work Order:	9809022	Client Sample ID:	9809101015; 3pt. Bottom Compo
Lab ID:	9809022-02A	Matrix:	SOIL
Project:	Jicarilla K20	Collection Date:	9/10/98 10:15:00 AM
		COC Record:	5753

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/14/98

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

1 of 1

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OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 15-Sep-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla K20
Work Order:	9809022	Client Sample ID:	9809101005; 4 Wall Composite
Lab ID:	9809022-01A	Matrix:	SOIL
Project:	Jicarilla K20	Collection Date:	9/10/98 10:05:00 AM
		COC Record:	5753

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/14/98

Qualifiers:

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- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- Surr: - Surrogate

1 of 1

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**JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528**

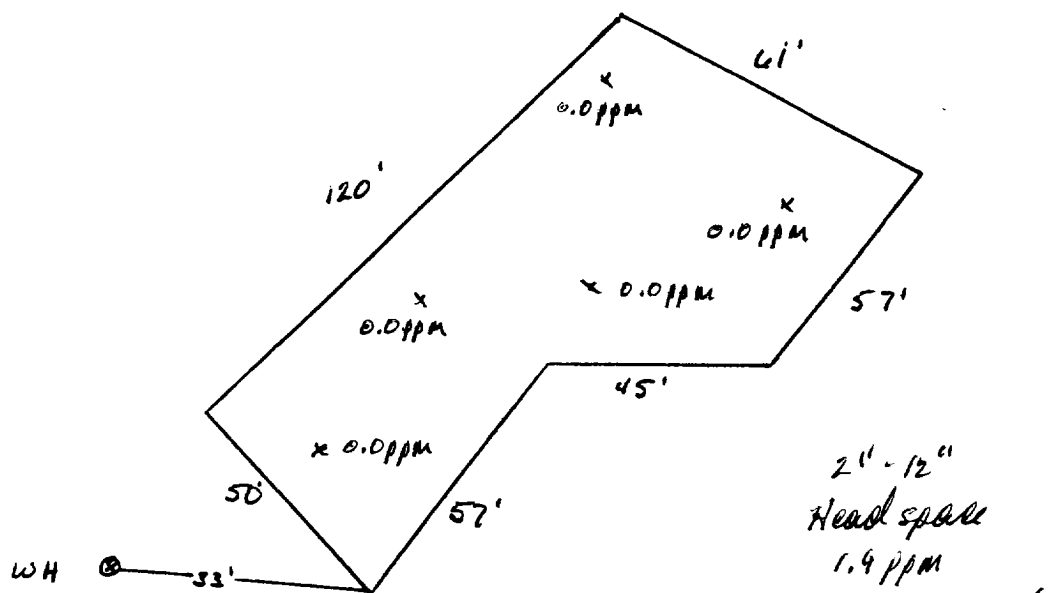
SUBMIT ONE COPY
TO NATURAL
RESOURCE DEPT
AND OIL- GAS
ADMINISTRATION

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 K20 Land Farm</u>	
Location: Unit <u>B</u> Sec <u>2</u> T <u>25 N</u> R <u>5 W</u> County <u>Rio Arriba</u>	
Land Type: <u>Jicarilla Apache</u>	
Date Remediation Started: <u>9/9/98</u> Date Completed: <u>11/16/98</u>	
Remediation Method: Landfarmed <input checked="" type="checkbox"/> Approx. cubic yards <u>294</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>11/12/98</u> Time <u>1052</u> Sampling Results: Field Headspace (ppm) <u>1.9</u> TPH (ppm) <u>ND</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>Backfill</u>	
SIGNATURE: <u>Ken C. Mando</u>	DATE: <u>12-15-98</u>

Jicarilla K20 Land farm on Jicarilla R11E
 (B) 2-25N-5W
 CONOCO
 (C) 2-25N-5W
 CONOCO
 294 yds

N
 ↑



not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 19-Nov-98

CLIENT: PNM - Public Service Company of NM

Project: Jicarilla Pit Remediation

Lab Order: 9811041

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: 19-Nov-98

Client: PNM - Public Service Company of NM
Work Order: 9811041
Lab ID: 9811041-10A **Matrix:** SOIL
Project: Jicarilla Pit Remediation

Client Sample Info: Jicarilla K-20 LF
Client Sample ID: 9811121052; 6pt. Comp.
Collection Date: 11/12/98 10:52:00 AM
COC Record: 7401

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	ND	50		mg/Kg	2	Analyst: DC 11/16/98

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
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