

Dennis B. Faust
DEPUTY OIL & GAS INSPECTOR

OCT 19 1996

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

SUBMITTED
NATURAL RESOURCE

RECEIVED
JUL 30 1996

PIT REMEDIATION AND CLOSURE REPORT

OIL CON. DIV.
DIST. 3

Operator: DNM Gas Services Telephone: 324-3763
Address: 603 W. Elm Farmington, N. Mex 87401
Facility or Well Name: Jicarilla A-21 (Conoco)
Location: Unit or Qtr/Qtr Sec B Sec 13 T 26N R 4W County Rio Arriba
Pit Type: Separator X Dehydrator Other
Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 100', width 52', depth 38'
(Attach diagram)
Reference: wellhead X, other
Footage from reference: 75'
Direction from reference: Due Degrees of East North
 West South

Depth To Groundwater:

(Vertical distance from
contaminants to seasonal
high water elevation of
groundwater)

Less than 50 feet (20 points)
50 feet to 99 feet (10 points)
Greater than 100 feet (0 points) 0

Distance to an Ephemeral Stream

(Downgradient dry wash greater than
ten feet in width)

Less than 100 feet (10 points)
Greater than 100 feet (0 points) 10

Distance to Nearest Lake, Playa, or Watering Pond

(Downgradient lakes, playas and
livestock or wildlife watering ponds)

Less than 100 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
1000 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 100 feet (20 points)
100 feet to 1000 feet (10 points)
Greater than 1000 feet (0 points) 0

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: 5/21/96 Date Completed: 6/20/96
Remediation Method: Excavation X Approx. cubic yards 1844
(Check all appropriate sections) Landfarmed X ~~Landfill~~

Other 714 cu. yds. 1130 cu. yds.
Remediation Location: Onsite X Offsite X TNT Land farm
(i.e. landfarmed onsite, name and location of offsite facility) Schmitz Ranch, N. Mex.

General Description of Remedial Action: Removal of contaminated soil to a dep. of 38'

Groundwater Encountered: No X Yes Depth

Final Pit: Sample location North, South, West Walls
Closure Sampling: and Pit Bottom
(if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 25'
Sample date 6/11/96 Sample time 1450

Sample Results

Soil: Benzene	(ppm)	<u>0.020</u>	Water: Benzene	(ppb)	<u> </u>
Total BTEX	(ppm)	<u>0.352</u>	Toluene	(ppb)	<u> </u>
Field Headspace	(ppm)	<u> </u>	Ethylbenzene	(ppb)	<u> </u>
TPH 80/15	(ppm)	<u><5.0</u>	Total Xylenes	(ppb)	<u> </u>

Groundwater 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 BELIEF

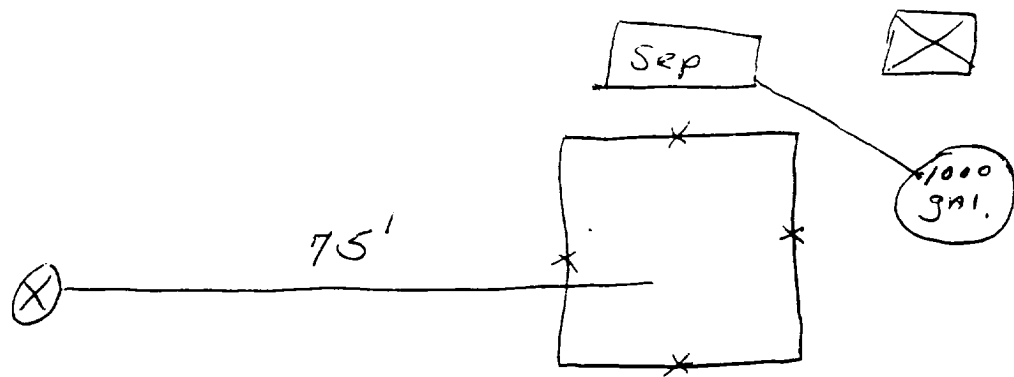
DATE 6/17/96 PRINTED NAME Ronald R. Dedrick
SIGNATURE Ronald R. Dedrick AND TITLE E.T.

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

APPROVED: YES X NO (REASON) Conditional Closure Recheck At P-0A

SIGNED: [Signature] DATE: 6-18-96

Jicarilla A-21 Conoco
Sec. 13 T26N R4W B



OFF: (505) 325-8786



LAB: (505) 325-5667

Diesel Range Organics

Attn: *Denver Bearden*
 Company: *PNM Gas Services*
 Address: *603 W. Elm*
 City, State: *Farmington, NM 87401*

Date: *17-Jun-96*
 COC No.: *4652*
 Sample No. *11198*
 Job No. *2-1000*

Project Name: ***PNM Gas Services - Jicarilla A-21 12-51***Project Location: ***9606111450; 4pt. Composite***Sampled by: *RD* Date: *11-Jun-96* Time: *14:50*Analyzed by: *DC* Date: *17-Jun-96*Sample Matrix: *Soil****Laboratory Analysis***

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Diesel Range Organics (C10 - C28)</i>	<i>< 5.0</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

Quality Assurance ReportDRO QC No.: *0475-QC****Calibration Check***

<i>Parameter</i>	<i>Method Blank</i>	<i>Unit of Measure</i>	<i>True Value</i>	<i>Analyzed Value</i>	<i>% Diff</i>	<i>Limit</i>
<i>Diesel Range (C10 - C28)</i>	<i>< 5.0</i>	<i>ppm</i>	<i>2,000</i>	<i>1,983</i>	<i>0.8</i>	<i>15%</i>

Matrix Spike

<i>Parameter</i>	<i>1 - Percent Recovered</i>	<i>2 - Percent Recovered</i>	<i>Limit</i>	<i>%RSD</i>	<i>Limit</i>
<i>Diesel Range (C10-C28)</i>	<i>98</i>	<i>102</i>	<i>(70-130)</i>	<i>3</i>	<i>20%</i>

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: *DC*
 Date: *6/17/96*

P. O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-8786



LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *17-Jun-96*
COC No.: *4652*
Sample No.: *11198*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla A-21 12-51*

Project Location: *9606111450; 4 pt. Composite*

Sampled by: *RD* Date: *11-Jun-96* Time: *14:50*
Analyzed by: *DC* Date: *17-Jun-96*
Sample Matrix: *Soil*

Laboratory Analysis

Component	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Benzene</i>	<i>20.0</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Toluene</i>	<i>33.0</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Ethylbenzene</i>	<i>22.7</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>m,p-Xylene</i>	<i>261.1</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>o-Xylene</i>	<i>14.8</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>TOTAL</i>	<i>351.6</i>	<i>ug/kg</i>		

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: *JaG*
Date: *6/17/96*

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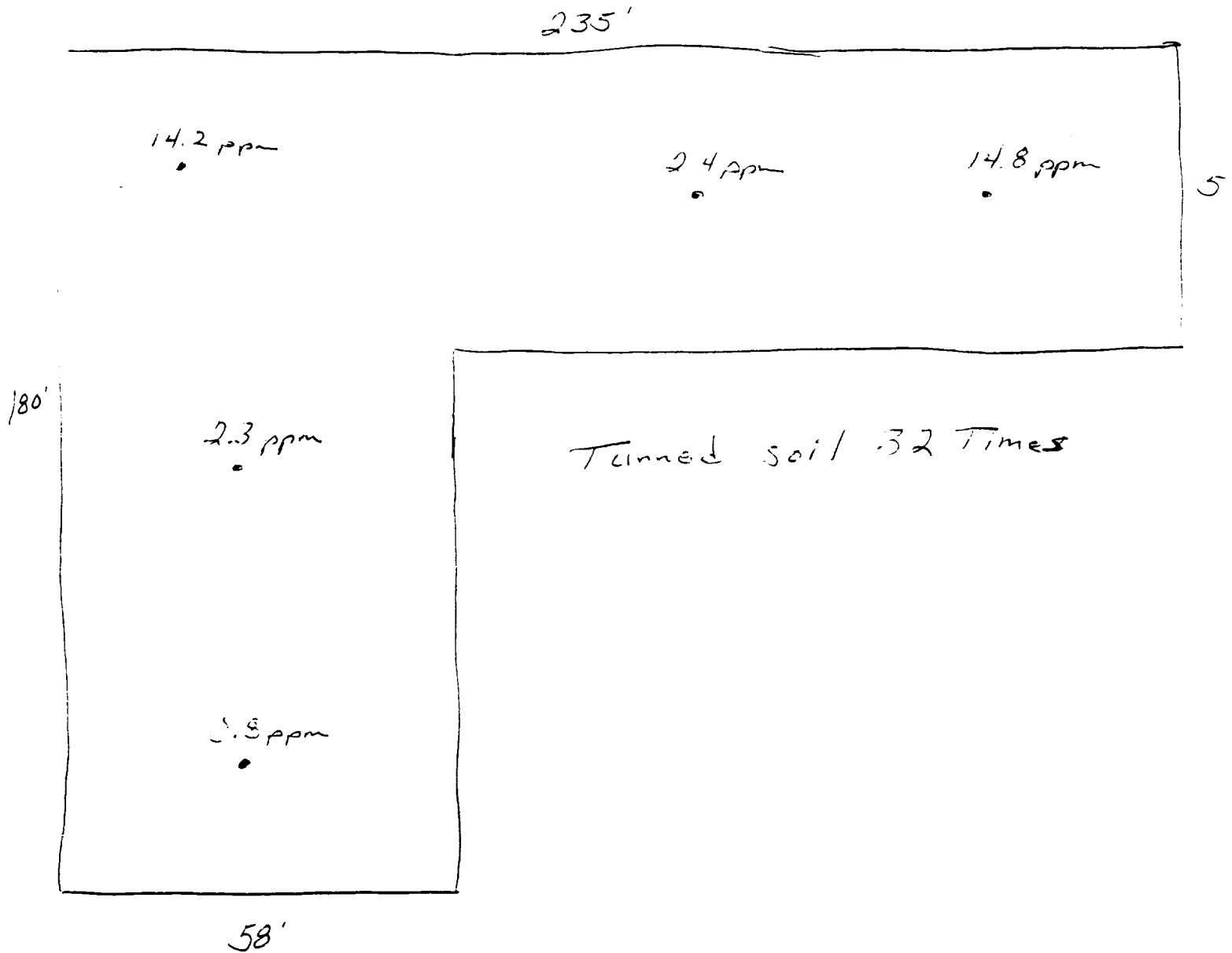
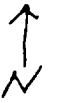
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ENVIRONMENTAL PROTECTION OFFICE
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DULCE, NEW MEXICO 87528

SUBMIT 1 COPY
NATURAL RESOURCE DE
AND OIL & GAS ADMINISTRATI

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>PNM Gas Services</u>		Telephone: <u>324-3763</u>	
Address: <u>603 W. Elm Farmington, N Mex. 87401</u>			
Facility or Well Name: <u>Jicarilla A 21 Conoco</u>			
Location: Unit or Qtr/Qtr Sec <u>1</u> Sec <u>13</u> T <u>26N</u> R <u>4W</u> County <u>Rio Arriba</u>			
Land Type: <u>Jicarilla Apache</u>			
Date Remediation Started: <u>5/21/96</u>		Date Completed: _____	
Remediation Method: Landfarmed <u>X</u>		Approx. cubic yards <u>714</u>	
Composted _____			
Other _____			
Depth To Groundwater: (pts.) <u>2</u>		Final Closure Sampling:	
Distance to an Ephemeral Stream (pts.) <u>10</u>		Sampling Date: <u>5/14/96</u> Time: <u>0959</u>	
Distance to Nearest Lake, Playa, or Watering Pond (pts.) <u>4</u>		Sample Results:	
Wellhead Protection Area: (pts.) <u>1</u>		Field Headspace (ppm) <u>14.8</u>	
Distance To Surface Water: (pts.) <u>2</u>		TPH (ppm) <u><5.0</u> Method <u>3015</u>	
RANKING SCORE (TOTAL POINTS): <u>10</u>		Other _____	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF			
DATE <u>6/24/96</u>		PRINTED NAME <u>Ronald A Dedrick</u>	
SIGNATURE <u>Ronald A Dedrick</u>		AND TITLE <u>E.T.</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 <u>X</u> NO _____ (REASON) _____			
SIGNED: <u>[Signature]</u>		DATE: <u>6-24-96</u>	

Jicanilla A-21 Soil Farm
714 cu. yds.



OFF: (505) 325-8786



LAB: (505) 325-5667

Diesel Range Organics

Attn: **Denver Bearden**
 Company: **PNM Gas Services**
 Address: **603 W. Elm**
 City, State: **Farmington, NM 87401**

Date: **21-Jun-96**
 COC No.: **4560**
 Sample No. **11236**
 Job No. **2-1000**

Project Name: **PNM Gas Services - Jicarilla A-21 Soil Farm Run 12-51**Project Location: **9606190959; 5pt. Composite**Sampled by: **RD** Date: **19-Jun-96** Time: **9:59**Analyzed by: **DC** Date: **20-Jun-96**Sample Matrix: **Soil*****Laboratory Analysis***

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Diesel Range Organics (C10 - C28)	<5.0	mg/kg	5.0	mg/kg

Quality Assurance ReportDRO QC No.: **0475-QC*****Calibration Check***

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Diesel Range (C10 - C28)	<5.0	ppm	2,000	1,746	12.7	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Diesel Range (C10-C28)	103	94	(70-130)	6	20%

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by:

Date: **6/21/96**

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