

Denny & Frost
DEPUTY OIL & GAS INSPECTOR

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

FEB 28 1997

SUBMIT COPY TO
NATURAL RESOURCE DEPT

RECEIVED
OCT 31 1996
OIL & GAS ADMINISTRATION

PIT REMEDIATION AND CLOSURE REPORT

OIL CO. DIV.
DULCE

Operator: PNM Gas Services Telephone: 324-3763
Address: 603 W. Elm Farmington, N. Mex 87401
Facility or Well Name: Jicarilla F5A (Meridian)
Location: Unit or Qtr/Qtr Sec L Sec 33 T 26N R 4W County Rio Arriba
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 29', width 21', depth 5'
(Attach diagram)
Reference: wellhead ☒ other ☐
Footage from reference: 99'
Direction from reference: 75 Degrees ☐ East ☐ North
☐ West of South of East

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): 0

Date Remediation Started: 7/16/96 Date Completed: 8/14/96

Remediation Method: Excavation X

Approx. cubic yards 113

(Check all appropriate sections)

Landfarmed X

113

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 pit to get a below 100 ppm head space reading on all four walls. Bottom Solid Rock

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit:

Sample location North, East, South, & West

Closure Sampling:

(if multiple samples,

attach sample results

and diagram of sample

locations and depths)

Sample depth 5'

Sample date 7/16/96 Sample time 1330

Sample Results

Soil: Benzene 8020 (ppm) 0.001 Water: Benzene (ppb) _____

Total BTEX (ppm) 0.2018 Toluene (ppb) _____

Field Headspace (ppm) _____ Ethylbenzene (ppb) _____

TPH 8015 (ppm) <5.0 Total Xylenes (ppb) _____

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 7/17/96 PRINTED NAME Ronald A Dedrick

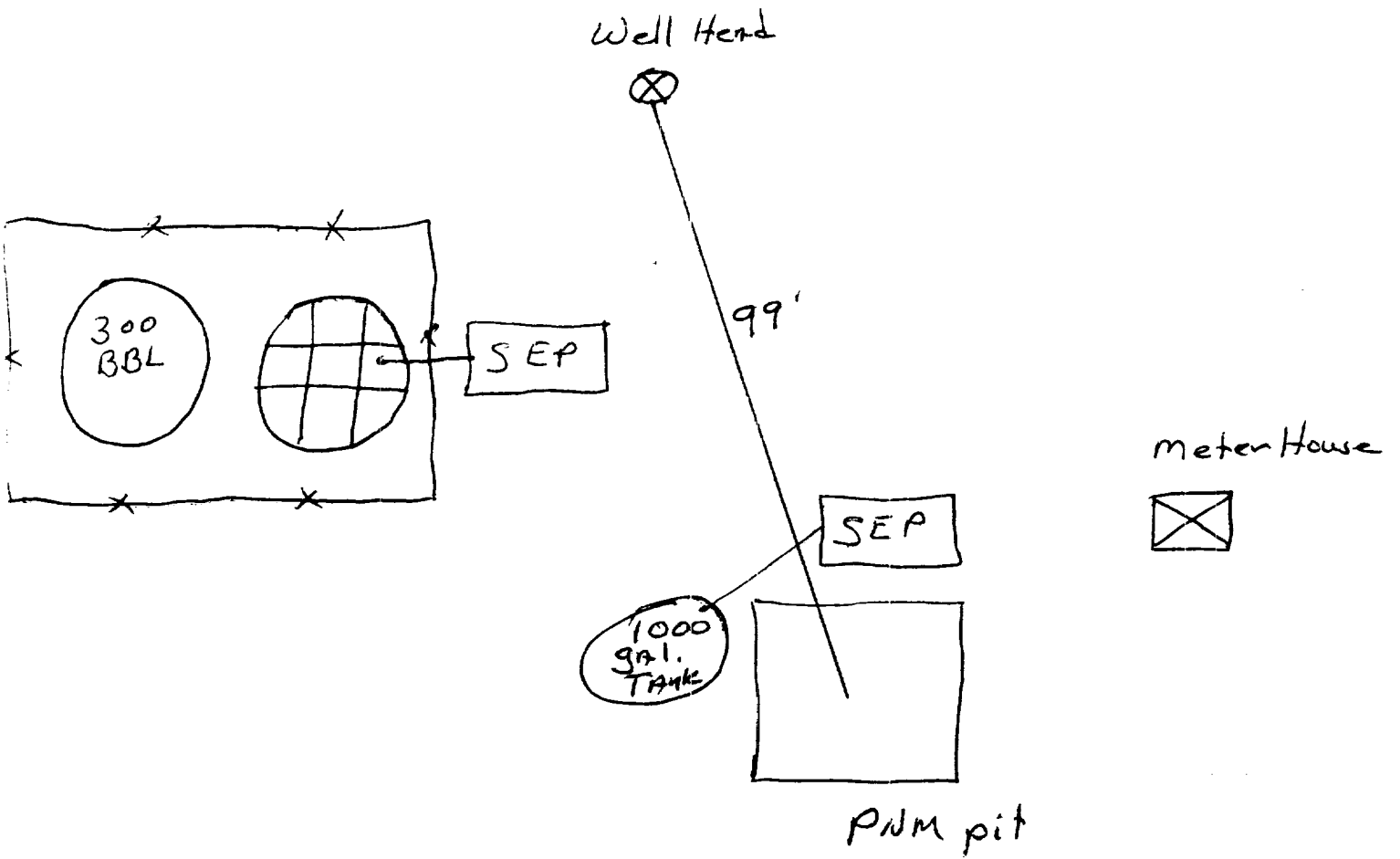
SIGNATURE Ronald A Dedrick AND TITLE E.T.

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

APPROVED: YES X NO _____ (REASON) _____

SIGNED: Ken C. Mamm DATE: 7-24-96

JICAM 1111 1 5 17
Sec. 33 T26N R4W Unit L
meridian



OFF: (505) 325-5667



LAB: (505) 321-1556

Diesel Range Organics

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

Date: *19-Jul-96*
COC No.: *4792*
Sample No. *11548*
Job No. *2-1000*

Project Name: *PNM Gas Services - Jicarilla F5A Run 12-51*

Project Location: *9607161330; 4pt. Composite*

Sampled by: *EP* Date: *16-Jul-96* Time: *13:30*

Analyzed by: *HR/DC* Date: *19-Jul-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 Report

DRO QC No.: *0479-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>1,912</i>	<i>4.4</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>100</i>	<i>(70-130)</i>	<i>2</i>	<i>20%</i>

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

Approved by: *[Signature]*
Date: *7/19/96*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

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

Date: *19-Jul-96*
COC No.: *4792*
Sample No.: *11548*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla F5A Run 12-51*

Project Location: *9607161330; 4pt. Composite*

Sampled by: *EP* Date: *16-Jul-96* Time: *13:30*

Analyzed by: *HR* Date: *19-Jul-96*

Sample Matrix: *Soil*

Laboratory Analysis

Component	Result	Unit of Measure	Detection Limit	Unit of Measure
Benzene	1.0	ug/kg	0.2	ug/kg
Toluene	32.1	ug/kg	0.2	ug/kg
Ethylbenzene	16.3	ug/kg	0.2	ug/kg
m,p-Xylene	114.0	ug/kg	0.2	ug/kg
o-Xylene	38.4	ug/kg	0.2	ug/kg
TOTAL		201.8	ug/kg	

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

Approved by: *[Signature]*
Date: *7/19/96*

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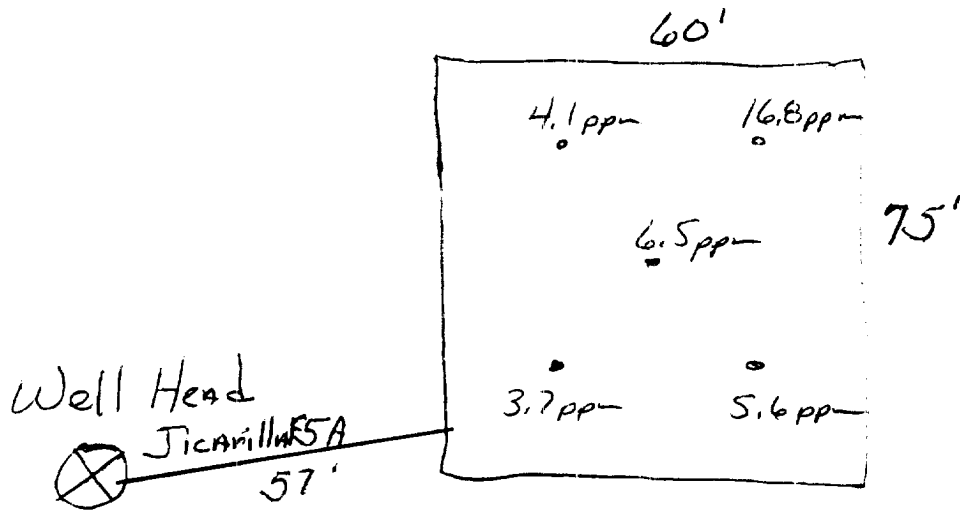
SUBMIT 1 COPY TO:
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>PNM Gas Service</u> Telephone: <u>324-3763</u>	
Address: <u>603 W. Elm Farmington, N. Mex 87401</u>	
Facility or Well Name: <u>Jicarilla FSA Meridian</u>	
Location: Unit or Qtr/Qtr Sec <u>L</u> Sec <u>33</u> <u>T26N</u> R <u>4W</u> County <u>Rio Arriba</u>	
Land Type: <u>Jicarilla Apache</u>	
Date Remediation Started: <u>7/16/96</u> Date Completed: <u>8/14/96</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>113</u>	
Composted _____	
Other _____	
Depth To Groundwater: (pts.) <u>0</u>	Final Closure Sampling: Sampling Date: <u>8/6/96</u> Time: <u>1822</u> Sample Results: Field Headspace (ppm) <u>16.8</u> TPH (ppm) <u>852</u> Method <u>3015</u> Other _____
Distance to an Ephemeral Stream (pts.) <u>10</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>10</u>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE <u>8/11/96</u>	PRINTED NAME <u>Ronald A Dedrick</u>
SIGNATURE <u>Ronald A Dedrick</u>	AND TITLE <u>ET</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>✓</u> NO _____ (REASON) _____	
SIGNED: <u>Karena Castillo</u> DATE: <u>August 12, 1996</u>	

Jicarilla 1011
Sec. 33 T26N R4W Unit L
Meridian

Land Farm



OFF: (505) 325-5667



LAB: (505) 325-1556

Diesel Range Organics

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

Date: *8-Aug-96*
 COC No.: *4825*
 Sample No. *11694*
 Job No. *2-1000*

Project Name: ***PNM Gas Services - Jicarilla F5A Landfarm Run 12-51***Project Location: ***9608061822; 5pt. Composite***Sampled by: *RD* Date: *6-Aug-96* Time: *18:22*Analyzed by: *DC* Date: *8-Aug-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>851.8</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

Quality Assurance ReportDRO QC No.: *0479-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>100</i>	<i>101</i>	<i>1.0</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>96</i>	<i>91</i>	<i>(70-130)</i>	<i>4</i>	<i>20%</i>

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

Approved by: *[Signature]*
 Date: *8/8/96*

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