

Denny E. Faust
DEPUTY OIL & GAS INSPECTOR

FEB 28 1997

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

SUBMIT COPY
NATURAL RESOURCE DI
AND OIL & GAS ADMINISTRATION

RECEIVED
OCT 31 1996

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services Telephone: 324-3763

Address: 603 W. Elm Farmington, N. Mex. 87401

Facility or Well Name: Jicarilla 103-13 Meridian

Location: Unit or Qtr/Qtr Sec K Sec 20 T 26N R 4W County Rio Arriba

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 22, width 21, depth 17
(Attach diagram)

Reference: wellhead ☒ other ☐

Footage from reference: 135'

Direction from reference: Straight Degrees X 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

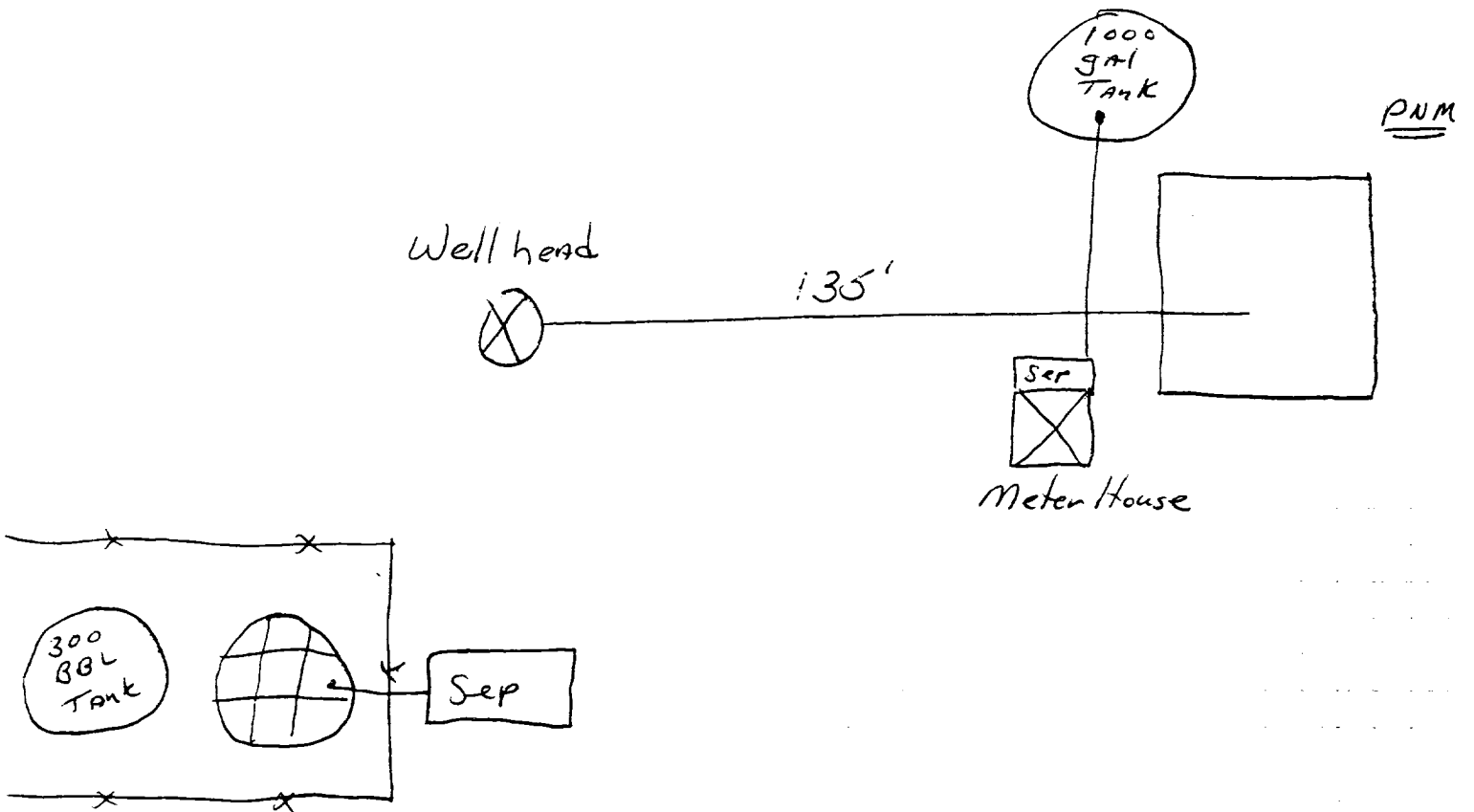
Distance To Surface Water:

(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

Jicarilla 103-13
Sec. 20 T26N R4W Unit K
Meridian



Date Remediation Started: 7/2/96 Date Completed: 8/14/96

Remediation Method: Excavation ☒ Approx. cubic yards 291
(Check all appropriate sections) Landfarmed ☒ ~~Other~~ 291

Other _____

Remediation Location: Onsite ☒ Offsite _____
(i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: Removed contaminated soil from all 4 wall
And pit bottom to a below 100 ppm headspace reading.

Groundwater Encountered: No ☒ Yes _____ Depth _____

Final Pit: Sample location North, East, South, West side walls.
Closure Sampling: And pit bottom.
(if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 17'
Sample date 7/2/96 Sample time 1500

Sample Results

| | |
|-----------------------------------|----------------------------|
| Soil: Benzene (ppm) _____ | Water: Benzene (ppb) _____ |
| Total BTEX (ppm) _____ | Toluene (ppb) _____ |
| Field Headspace (ppm) <u>85.1</u> | Ethylbenzene (ppb) _____ |
| TPH <u>8065</u> (ppm) <u>65.0</u> | Total Xylenes (ppb) _____ |

Groundwater Sample: Yes _____ No ☒ (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 7/2/96 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 ☒ NO _____ (REASON) _____

SIGNED: Joe C. Mamm DATE: 7-9-96

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-Jul-96*
COC No.: *4781*
Sample No. *11406*
Job No. *2-1000*

Project Name: *PNM Gas Services - Jicarilla 103-13*
Project Location: *9607021500; 5pt. Composite*
Sampled by: *EP* Date: *2-Jul-96* Time: *15:00*
Analyzed by: *DC* Date: *3-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.: *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>1,915</i> | <i>4.3</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>117</i> | <i>112</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: *[Signature]*
Date: *7/8/96*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

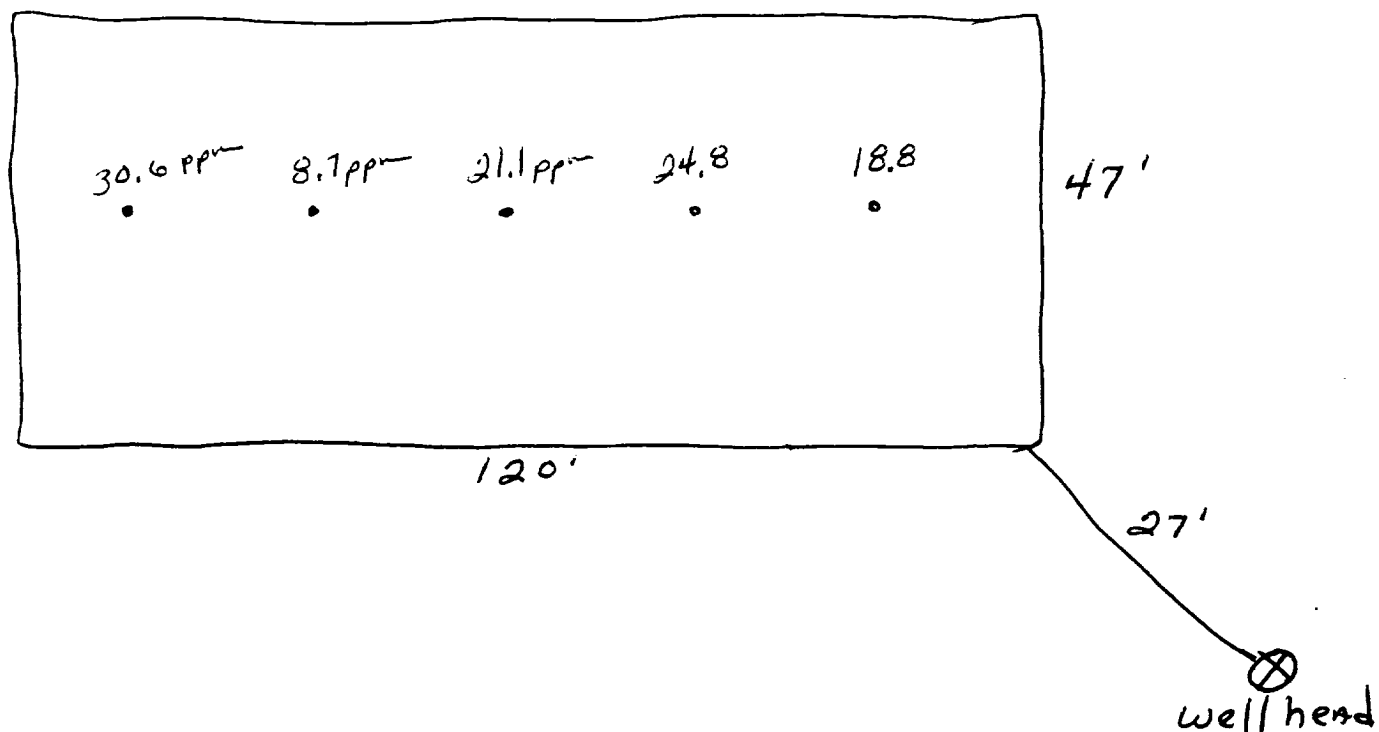
JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

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

ON-SITE SOIL REMEDIATION REPORT

| | |
|--|--|
| Operator: <u>PNM Gas Services</u> Telephone: <u>324-3764</u> | |
| Address: <u>603 W. Elm Farmington, N Mex. 87401</u> | |
| Facility or Well Name: <u>Jicarilla 103-13 (meridian)</u> | |
| Location: Unit or Qtr/Qtr Sec <u>K</u> Sec <u>20</u> T <u>26N</u> R <u>4W</u> County <u>Rio Arriba</u> | |
| Land Type: <u>Jicarilla Apache</u> | |
| Date Remediation Started: <u>7/2/96</u> Date Completed: <u>8/14/96</u> | |
| Remediation Method: Landfarmed <input checked="" type="checkbox"/> Approx. cubic yards <u>291</u> | |
| Composted <input type="checkbox"/> | |
| Other <input type="checkbox"/> | |
| Depth To Groundwater: (pts.) <u>0</u> | Final Closure Sampling: Sampling Date: <u>7/17/96</u> Time: <u>1700</u> Sample Results: Field Headspace (ppm) <u>30.6</u> TPH (ppm) <u>113.7</u> Method <u>8015</u> Other <input type="checkbox"/> |
| 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>7/17/96</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 <input checked="" type="checkbox"/> NO <input type="checkbox"/> (REASON) _____ | |
| SIGNED: <u>[Signature]</u> DATE: <u>7-24-96</u> | |

Jicarilla 103-13
Sec. 20 T26N R4W Unit K
Meridian



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: *19-Jul-96*
COC No.: *4798*
Sample No. *11543*
Job No. *2-1000*

Project Name: *PNM Gas Services - Jicarilla 103-13 Landfarm Run 12-51*
Project Location: *9607171700; 5pt. Composite*
Sampled by: *RB* Date: *17-Jul-96* Time: *17:00*
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>113.7</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: *Dall*
Date: *7/19/96*