

Denny E. Faust
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
AND OIL & GAS ADMINISTRATION

RECEIVED
OCT 31 1998

OIL & GAS DIV.
DULCE, NM

PIT REMEDIATION AND CLOSURE REPORT

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

Pit Location: Pit dimensions: length 41', width 24', depth 14'
(Attach diagram)

Reference: wellhead ☒, other ☐

Footage from reference: 53'

Direction from reference: 60 Degrees of East North of West
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) 10

RANKING SCORE (TOTAL POINTS): 20

Date Remediation Started: 6/17/96 Date Completed: 7/16/96

Remediation Method: Excavation X Approx. cubic yards 473

(Check all appropriate sections) Landfarmed X ~~Other~~

Other _____

Remediation Location: Onsite X Offsite TNT Landfill (260 cu.yds.)
(i.e. landfarmed onsite, name and location of offsite facility) Schmidt Ranch, N. Mex.

General Description of Remedial Action: Removed contaminated soil from pit walls to below 100 ppm headspace. Bottom of pit is solid sandstone

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location North, East, South, + West
Closure Sampling: Side walls
(if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth _____
Sample date 6/17/96 Sample time 1540

Sample Results

Soil: Benzene (ppm) _____	Water: Benzene (ppb) _____
Total BTEX (ppm) _____	Toluene (ppb) _____
Field Headspace (ppm) <u>87.7</u>	Ethylbenzene (ppb) _____
TPH <u>80/5</u> (ppm) <u><5.0</u>	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

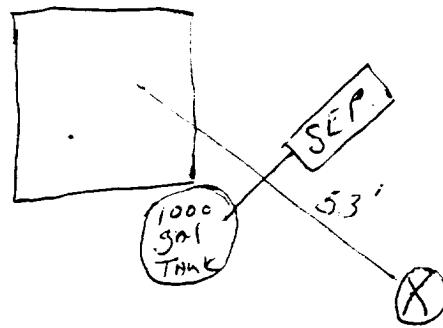
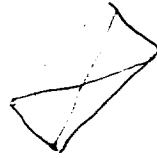
DATE 6/17/96 PRINTED NAME Ronald A. Dedrick
SIGNATURE Ronald A. Dedrick AND TITLE E.T.

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: Ronald A. Dedrick DATE: 6-24-96

Low 4
Sec. 26 T26N R34W Unit I
Snyder



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.: *4657*
Sample No. *11234*
Job No. *2-1000*

Project Name: ***PNM Gas Services - Lowe 4 Run 12-41***

Project Location: ***9606171540; 4pt. Composite***

Sampled by: *RD* Date: *17-Jun-96* Time: *15:40*

Analyzed by: *DC* Date: *20-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 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>1,746</i>	<i>12.7</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>103</i>	<i>94</i>	<i>(70-130)</i>	<i>6</i>	<i>20%</i>

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

Approved by: *[Signature]*

Date: *6/21/96*

P. O. BOX 2606 • FARMINGTON, NM 87499

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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: PNM Gas Services Telephone: 324-3763
Address: 603 W. Elm Farmington, N. Mex. 87401
Facility or Well Name: Lowe 4 (Snyder)
Location: Unit or Qtr/Qtr Sec I Sec 26 T 26N R 4W County Rio Arriba
Land Type: Jicarilla Apache

Date Remediation Started: 6/17/96 Date Completed: _____
Remediation Method: Landfarmed X Approx. cubic yards 195
Composted _____
Other _____

Depth To Groundwater: (pts.) 0
Distance to an Ephemeral Stream (pts.) 10
Distance to Nearest Lake, Playa, or Watering Pond (pts.) 0
Wellhead Protection Area: (pts.) 0
Distance To Surface Water: (pts.) 10

RANKING SCORE (TOTAL POINTS): 20

Final Closure Sampling:

Sampling Date: 7/2/96 Time: 1725
Sample Results:
Field Headspace (ppm) 83.4
TPH (ppm) 15.0 Method 8015
Other _____

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 7/8/96 PRINTED NAME Ronald A. Dedrick
SIGNATURE Ronald A. Dedrick AND TITLE E.T.

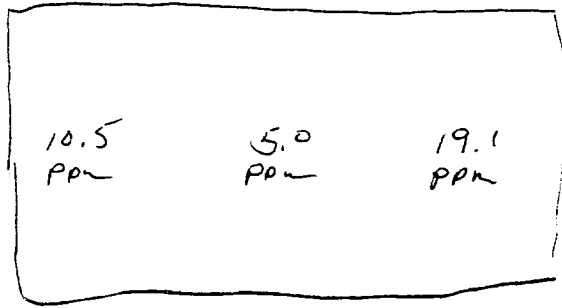
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON) _____

SIGNED: Ronald A. Dedrick DATE: 7-9-96

Lowe #4

97'

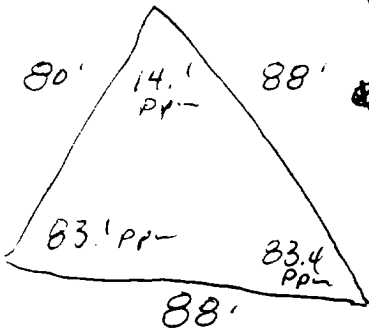


65 cu yds.

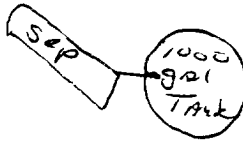
18'



meter house



well head



130 cu yds.

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.: *4572*
Sample No. *11410*
Job No. *2-1000*

Project Name: *PNM Gas Services - Lowe #4 Landfarm*
Project Location: *9607021725; 6pt. Composite*
Sampled by: *RB* Date: *2-Jul-96* Time: *17:25*
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: *Ja4*

Date: *7/8/96*

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