

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS: Box 3667
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Montvale Water, Inc. Mailing Address: P. O. Box 155

TENANT: Montvale Community Mailing Address: Montvale, Virginia

DRILLER: Nelson-Roanoke Corp. Mailing Address: P. O. Box 2827 Roanoke, Va 24008

WELL LOCATION: County Bedford Approx. 3 ^{feet} miles west (direction) of
Montvale, Virginia on Route 698 and 1/4 ^{feet} miles east (direction) of Route 697

(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC. - ON COUNTY HIGHWAY OR OTHER MAP.)

DATE STARTED: 8/20/69 DATE COMPLETED: 11/3/69

TYPE OF DRILL RIG USED: Pneumatic TOTAL DEPTH 185 feet

WATER LEVEL: Stands 75 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Pumped
Drawdown 9 feet
Rate 110 gal. per min.
Duration 12 hrs., _____ min.

HOLE SIZE: 9 inches from 0 to 50 feet
6 inches from 50 to 185 feet
_____ inches from _____ to _____ feet

WATER ZONES: from 105 to _____ feet
from _____ to _____ feet
from _____ to _____ feet

SCREEN SIZE: _____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WATER: Color clean Taste good
Odor none Temp. _____ °F

CASE SIZE: 6 inches from 0 to 50 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WELL TO SUPPLY: (check one) Home _____
Farm _____ Town X School _____
Industry _____ Other _____

GROUTING: Method poured
Material cement/water Depth 50 feet

WATER ANALYSIS AVAILABLE: Yes X No _____

PUMP: Type Submersible
Capacity 80 gal. per min
Depth of intake 155 feet

DRILL CUTTINGS SAVED: Yes 18 No _____

(DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT INTERVALS. THESE SAMPLES MAY BE SHIPPED TO THIS OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISHED FREE OF CHARGE UPON REQUEST.)

REMARKS: Pump Test - 80 gals. per minute against 80 lb. pressure
12/1/69 - driller reports well in use @ 110 gpm w/little D'd

VIRGINIA DIVISION OF MINERAL RESOURCES
Box 3667, Charlottesville, VA 22903

INTERVAL SHEET

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C - 200
Well Repository No: 2699

Date rec'd: 12/2/69

Sample Interval: from 0' to: 180'

PROPERTY: Montvale Water Co.

Number of samples: 18

COMPANY: Nelson-Roanoke Corp.

Total Depth: 185'

COUNTY: Bedford (Montvale)

Oil or Gas: Water: Exploratory:

| From - To | From - To | From - To | From - To |
|-----------|-----------|-----------|-----------|
| 0 - 10 | - | - | - |
| 10 - 20 | - | - | - |
| 20 - 30 | - | - | - |
| 30 - 40 | - | - | - |
| 40 - 50 | - | - | - |
| 50 - 60 | - | - | - |
| 60 - 70 | - | - | - |
| 70 - 80 | - | - | - |
| 80 - 90 | - | - | - |
| 90 - 100 | - | - | - |
| 100 - 110 | - | - | - |
| 110 - 120 | - | - | - |
| 120 - 130 | - | - | - |
| 130 - 140 | - | - | - |
| 130 - 150 | - | - | - |
| 150 - 160 | - | - | - |
| 160 - 170 | - | - | - |
| 170 - 180 | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |

All intervals have both washed and unwashed samples



OWNER: Montvale Water Co.
DRILLER: Nelson-Roanoke Corp.
COUNTY: Bedford (Montvale)

W: 2699
C: 200
TOTAL DEPTH: 185

GEOLOGIC LOG

Depth
in feet

0-10 Overburden - light reddish-brown, argillaceous sandy soil
and weathered rock fragments

ROME FORMATION (10-110')

10-20 Shale - maroon, mottled with gray, weathered shale

20-30 Shale - maroon, slightly weathered shale with small amounts
of light greenish-gray weathered shale

30-40 " some laminated maroon shale

40-50 " trace of manganese stain on fracture surfaces

50-60 Shale - maroon, mottled with gray, massive to slightly
laminated, slightly weathered shale

60-70 Shale - maroon and light greenish-yellow, slightly micaceous
shale, some weathered shale

70-80 " with small amount of laminated, sandy, greenish-
gray siltstone

80-90 Shale - maroon, silty shale

90-100 Siltstone and shale - maroon, laminated in part, weathered
siltstone and shale; secondary quartz, manganese, and
limonite on fracture surfaces

100-110 "

SHADY FORMATION (110-180')

110-120 Dolomite - light gray, microcrystalline, pyrite-bearing,
thin bedded to laminated dolomite; trace of weathered
shale

| | |
|---------|---|
| 120-130 | Dolomite – very dark gray to black, massive, microcrystalline, even-textured dolomite; trace of vein dolomite and red shale |
| 130-140 | " |
| 140-150 | " finely saccharoidal |
| 150-160 | " |
| 160-170 | " finely saccharoidal |
| 170-180 | " " |

GEOLOGIC SUMMARY

| | <u>Rock Unit</u> | <u>Age</u> |
|----------|------------------|-----------------|
| 0-10' | Overburden | – |
| 10-110' | Rome Formation | Middle Cambrian |
| 110-180' | Shady Formation | Middle Cambrian |

Virginia Division of Mineral Resources
 Thomas M. Gathright, Geologist
 December 8, 1969