

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W - 2698
C - 521

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

Box 3667

JAMES L. CALVER, COMMISSIONER

McCormick Road

Charlottesville, VA 22903

WATER WELL COMPLETION REPORT

Charlottesville, Virginia

OWNER: Howard E. Johnson Jr. Mailing Address: Rt. 4 Box 425B; Roanoke, Va.

TENANT: _____ Mailing Address: _____

DRILLER: Nelson-Roanoke Corporation Mailing Address: P. O. Box 2827; Roanoke, Va.

WELL LOCATION: County Roanoke, Approx. 2 ^{***}miles southwest (direction) of Rt. 638-B. R.
Starkey and 4500 ^{feet} ~~***~~ south (direction) of Parkway int.

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

DATE STARTED: August 15, 1969 DATE COMPLETED: August 15, 1969

TYPE OF DRILL RIG USED: air rotary TOTAL DEPTH 185 feet

WATER LEVEL: Stands _____ feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method air lift

Drawdown _____ feet

Rate 12 gal. per min.

Duration 1 hrs., 0 min.

WATER ZONES: from 123' ~~**~~ (1 GPM) feet

from 142' ~~**~~ (1 GPM) feet

from 170' ~~**~~ (10 GPM) feet

WATER: Color _____ Taste _____

Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home

Farm _____ Town _____ School _____

Industry _____ Other _____

WATER ANALYSIS AVAILABLE: Yes _____ No

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: _____

HOLE SIZE: 7 3/4 inches from 0 to 25 feet

6 1/4 inches from 25 to 185 feet

_____ inches from _____ to _____ feet

SCREEN SIZE: _____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

CASE SIZE: 6 1/4 inches from 0 to 25 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

GROUTING: Method _____

Material _____ Depth _____ feet

PUMP: Type _____

Capacity _____ gal. per min

Depth of intake _____ feet

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

INTERVAL SHEET

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Well Repository No: 2698

Date rec'd: 12/1/69

Sample Interval: from 0' to: 180'

PROPERTY: Howard E. Johnson, Jr.

Number of samples: 18

COMPANY: Nelson-Roanoke Corp.

Total Depth: 185'

COUNTY: Roanoke (Starkey)

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	-	-	-
140 - 150	-	-	-
150 - 160	-	-	-
160 - 170	-	-	-
170 - 180	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

All intervals have both washed and unwashed samples.

OWNER: Howard E. Johnson, Jr.
DRILLER: Nelson-Roanoke Corp.
COUNTY: Roanoke (Starkey)

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TOTAL DEPTH: 185'

GEOLOGIC LOG

Depth
in feet

- 0-10 Mica schist and phyllite – light brown, weathered, iron-oxide stained; chlorite, sericite and biotite (?), with minor amounts of quartz and feldspar; very strong cleavage
- 10-20 Phyllite schist – light grayish brown, weathered, iron-oxide stained; chlorite, muscovite and sericite, with minor amounts of quartz and sauceritized feldspar; strong cleavage and button schist development
- 20-30 Phyllite schist – light grayish brown, weathered, iron-oxide stained; chlorite, muscovite and sericite, with minor amounts of quartz and sauceritized feldspar; strong cleavage and button schist development
- 30-40 "
- 40-50 Schist – medium gray; quartz, chlorite, muscovite, finely-decimated biotite, and trace of pyrite; considerable evidence of shearing and mylonitization
- 50-60 "
- 60-70 Phyllite – light gray; sericite, quartz, and minor amounts of chlorite and sauceritized feldspar; well foliated
- 70-80 " with chlorite schist
- 80-90 " "
- 90-100 Chlorite schist and granular vein quartz – light- to medium-gray chlorite schist and pink, granular vein quartz
- 100-110 Chlorite phyllite – dark gray-green; slightly pyritic

- 110-120 Chlorite phyllite - dark gray-green; slightly pyritic
- 120-130 Chlorite-sericite schist - medium gray; strongly foliated; chlorite, quartz, sericite, biotite (?), and trace of pyrite
- 130-140 "
- 140-150 "
- 150-160 " with a minor amount of pink, vuggy feldspar
- 160-170 "
- 170-180 Chlorite-sericite schist and phyllite - medium gray; strongly foliated; chlorite, quartz, sericite, biotite (?), and trace of pyrite

GEOLOGIC SUMMARY

Schist and phyllite, that probably represent a mylonitized shear zone within the Blue Ridge Complex

Virginia Division of Mineral Resources
Thomas M. Gathright - Geologist
December 3, 1969