

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

VDMR: 2333
WWCR: 88

MAILING ADDRESS:

B-3667
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:

McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Green Hill, Inc. Mailing Address: Elliston, Virginia

TENANT: " Mailing Address: _____

DRILLER: Nelson-Roanoke Corp. Mailing Address: Roanoke, Va.

WELL LOCATION: County Montgomery Approx. 300 ^{feet}~~miles~~ west (direction) of

Green Hill, Inc. (Elliston) and 50 ^{feet}~~miles~~ south (direction) of U.S. Hwy. 11

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

DATE STARTED: 10/26/68 DATE COMPLETED: 10/28/68

TYPE OF DRILL RIG USED: air rotary TOTAL DEPTH 405 feet

WATER LEVEL: Stands _____ feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method pump

Drawdown 125 feet

Rate 15 gal. per min.

Duration 24 hrs., 0 min.

WATER ZONES: from 55 to 80 feet

from 80 to 150 feet

from 150 to 180 feet
180 310

WATER: Color _____ Taste _____

Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry X Other _____

WATER ANALYSIS AVAILABLE: Yes _____ No X

DRILL CUTTINGS SAVED: Yes X 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: 8 3/4 inches from 0 to 55 feet

6 1/8 inches from 55 to 405 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 55 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

GROUTING: Method Gravity

Material cement Depth 53 feet

PUMP: Type _____

Capacity _____ gal. per min

Depth of intake 320 feet

INTERVAL SHEET

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WWCR: 88
VDMR Well No: 2333

Date rec'd: 12/4/68

Sample Interval: from 0 to:400'

PROP: Green Hill, Inc.

Number of samples: 38

COMP: Nelson-Roanoke Corp.

Total Depth: 405'

COUNTY: Montgomery (Elliston)

Oil or Gas: Water: XExploratory:

From-To	From-To	From-To	From-To
0 - 10	300 - 310	-	-
10 - 20	310 - 320	-	-
20 - 30	320 - 330	-	-
30 - 40	330 - 340	-	-
40 - 50	340 - 350	-	-
50 - 60	350 - 360	-	-
60 - 70	-	-	-
70 - 80	-	-	-
80 - 90	380 - 390	-	-
90 - 100	390 - 400	-	-
100 - 110	-	-	-
110 - 120	-	-	-
120 - 130	-	-	-
130 - 140	-	-	-
140 - 150	-	-	-
150 - 160	-	-	-
160 - 170	-	-	-
170 - 180	-	-	-
180 - 190	-	-	-
190 - 200	-	-	-
200 - 210	-	-	-
210 - 220	-	-	-
220 - 230	-	-	-
230 - 240	-	-	-
240 - 250	-	-	-
250 - 260	-	-	-
260 - 270	-	-	-
270 - 280	-	-	-
280 - 290	-	-	-
290 - 300	-	-	-

All intervals have both washed and unwashed samples.

OWNER: Green Hill, Inc.
DRILLER: Nelson-Roanoke Corporation
COUNTY: Montgomery (Elliston)

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TOTAL DEPTH: 405'

GEOLOGIC LOG

Depth
in feet

TECTONIC BRECCIA (0-40')

0-10	Dolomite breccia — light-gray, fine-grained, saccharoidal, calcareous; minor amount of greenish-gray and purple dolomite; traces of pyrite and quartz
10-20	"
20-30	Shale breccia — green and purple, with light-gray dolomite fragments; trace of coarse-grained sandstone
30-40	Shale breccia — purple, dolomitic; trace of green shale

ELBROOK FORMATION (40-160')

40-50	Dolomite — medium-gray, fine-grained
50-60	" minor amount of vein dolomite
60-70	" " brecciated
70-80	" " "
80-90	Dolomite — dark-gray, fine-grained; minor amount of vein dolomite, minor breccia
90-100	"
100-110	"
110-120	" with trace of medium-gray chert
120-130	"
130-140	"
140-150	Dolomite — light-gray, brecciated; much white vein dolomite
150-160	"

OWNER: Green Hill, Inc.

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TECTONIC BRECCIA (160-180')

- 160-170 Breccia — light-tannish gray; calcareous siltstone, fine-grained sandstone, and greenish shale in a calcareous matrix; minor amount of medium-gray chert and trace of pyrite
- 170-180 "

ELBROOK FORMATION (180-400')

- 180-190 Dolomite — dark-gray, fine- to medium-grained; minor amount of vein dolomite
- 190-200 "
- 200-210 "
- 210-220 " with minor amount of dark-gray, dolomitic breccia
- 220-230 " with about 45% light- and medium-gray dolomite; trace of greenish shale
- 230-240 " "
- 240-250 Dolomite — dark-gray, fine- to medium-grained; minor amount of vein dolomite
- 250-260 " trace of medium-gray chert
- 260-270 Shale — greenish-gray, dolomitic; trace of dark-gray dolomite
- 270-280 Dolomite — light- to medium-gray, fine-grained; minor amount of light-gray, calcareous siltstone; traces of pyrite and medium-gray chert
- 280-290 Dolomite — greenish-gray, sheared, argillaceous; trace of vein dolomite
- 290-300 "
- 300-310 "

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310-320	Dolomite — greenish-gray, sheared, argillaceous; trace of vein dolomite
320-330	"
330-340	"
340-350	"
350-360	"
360-380	No samples
380-390	Dolomite — greenish-gray, sheared, argillaceous; trace of vein dolomite
390-400	"
400-405	No sample

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-40 ¹	Tectonic Breccia	Post Mississippian
40-160 ¹	Elbrook Formation	Cambrian
160-180 ¹	Tectonic Breccia	Post Mississippian
180-400 ¹	Elbrook Formation	Cambrian
400-405 ¹	No sample	—

Virginia Division of Mineral Resources
W. W. Winters, Geologist
December 8, 1968