

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: Augusta Co. Service Authority Mailing Address: Staunton, Virginia

TENANT: Quicks Spring Test Hole Mailing Address: _____

DRILLER: John W. Root Mailing Address: Box 17, Churchville, Va.

WELL LOCATION: County Augusta Approx. 1 1/4 ~~xxx~~ west (direction) of _____
Verona and 1/2 ~~xxx~~ south (direction) of Quicks Mill

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

DATE STARTED: 3/30/71 DATE COMPLETED: 4/2/71

TYPE OF DRILL RIG USED: Air rotary TOTAL DEPTH 370 feet

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

YIELD TEST: Method air lift
Drawdown _____ feet
Rate 150 gal. per min.
Duration 9 hrs., 0 min.

HOLE SIZE: 6 inches from 0 to 370 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WATER ZONES: from 97 , 170 to 247 feet
from 117 , 200 to 265 feet
from 135 , 228 to 350 feet

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

WATER: Color _____ Taste _____
Odor _____ Temp. _____ °F

CASE SIZE: 6 inches from 0 to 20 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

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

GROUTING: Method _____
Material _____ Depth _____ feet

WATER ANALYSIS AVAILABLE: Yes _____ No X

PUMP: Type _____
Capacity _____ gal. per min
Depth of intake _____ feet

DRILL CUTTINGS SAVED: Yes 37 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: _____

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

INTERVAL SHEET

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 Date rec'd: 5/17/71 ; processed 5/19/71
 PROPERTY: Augusta Co. Service Auth.
 (Quicks Spring Test Hole)
 COMPANY: J. W. Root
 COUNTY: Augusta (Quicks Mill)

C-416
 Well Repository No: 3156
 Sample Interval; from 10' to: 370'
 Number of samples: 37
 Total Depth: 370'
 Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
10 -	260 -	-	-
20 -	270 -	-	-
30 -	280 -	-	-
40 -	290 -	-	-
50 -	300 -	-	-
60 -	310 -	-	-
70 -	320 -	-	-
80 -	330 -	-	-
90 -	340 -	-	-
100 -	350 -	-	-
110 -	360 -	-	-
120 -	370 -	-	-
130 -	-	-	-
140 -	-	-	-
150 -	-	-	-
160 -	-	-	-
170 -	-	-	-
180 -	-	-	-
190 -	-	-	-
200 -	-	-	-
210 -	-	-	-
220 -	-	-	-
230 -	-	-	-
240 -	-	-	-
250 -	-	-	-

All intervals have both washed and unwashed samples



OWNER: Augusta County Service Authority
(Quicks Spring Test Hole)
DRILLER: J. W. Root
COUNTY: Augusta (Quicks Mill)

VDMR # 3156
WWCR # 416
TOTAL DEPTH : 370'

GEOLOGIC LOG

Depth
(feet)

OVERBURDEN (0-10')

10 Dolomite - grayish-tan, sandy, medium to coarsely crystalline;
minor amount of rounded vein quartz fragments

CONOCOCHEAGUE FORMATION (20-370')

20 Dolomite - medium gray, finely crystalline; minor amount of
light olive-drab siltstone; iron-oxide stains on some
fragments

30 "

40 Dolomite - light-gray, medium to coarsely crystalline; some
fragments are banded with tan siltstone and others have
iron-oxide stains

50 "

60 "

70 "

80 Dolomite - tanish-green, sandy, finely crystalline; some
fragments are banded with tan siltstone

90 Dolomite - dark gray, medium to coarsely crystalline; iron-
oxide stains and white dolomite crystals on some fragments

100 Dolomite and sandy dolomite - dolomite is light grayish-tan,
finely crystalline; tan siltstone banding in some fragments;
sandy dolomite is light tan, fine grained

110 "

120 "

130 "

- 140 Dolomite and sandy dolomite - dolomite is light grayish-tan, finely crystalline; sandy dolomite is light tan, fine grained
- 150 "
- 160 Dolomite and sandy dolomite - dolomite is light to dark gray, finely crystalline; sandy dolomite is light-tan, fine grained
- 170 " minor amount of iron-oxide stains on some fragments
- 180 "
- 190 "
- 200 Dolomite and sandy dolomite - dolomite is light grayish-tan, finely crystalline; white dolomite crystals on some fragments; sandy dolomite is light-tan, fine grained
- 210 "
- 220 "
- 230 Dolomite and sandy dolomite - dark gray, medium to coarsely crystalline; iron-oxide stains and tan banding on some fragments; sandy dolomite is light-tan, fine grained; a few fragments of light-tan siltstone
- 240 Dolomite - dark gray, medium crystalline; white dolomite crystals on some fragments
- 250 " with a minor amount of iron-oxide stains
- 260 "
- 270 Dolomite - light gray and dark gray, finely crystalline; iron-oxide stains on some fragments
- 280 "
- 290 Dolomite and sandy dolomite - dolomite is dark gray, finely crystalline; sandy dolomite is light-tan, fine grained

OWNER: Augusta County Service Authority - 3 -
(Quicks Spring Test Hole)

VDMR # 3156
WWCR # 416

300 Dolomite and sandy dolomite - dolomite is dark gray, finely crystalline; sandy dolomite is light-tan, fine grained; with a few fragments of light greenish-gray sandy siltstone, red calcareous shale and yellow non-calcareous shale; a few white dolomite crystals

310 "

320 "

330 Dolomite - dark gray, medium to coarsely crystalline

340 " with white dolomite crystals and veinlets on a few fragments

350 Dolomite - dark gray, finely crystalline; minor amount of iron-oxide stains; few fragments of a light gray calcareous siltstone

360 "

370 Sandy dolomite - medium-gray, fine grained

GEOLOGIC SUMMARY

<u>Depth (feet)</u>	<u>Rock Unit</u>	<u>Age</u>
0-10	Overburden	-
20-270	Conococheague Formation	Late Cambrian

Virginia Division of Mineral Resources
E. B. Nuckols III, Geologist
May 26, 1971