

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W - 3507
C - 258

MAILING ADDRESS:
P.O. 3667
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, COMMISSIONER
WATER WELL COMPLETION REPORT

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

OWNER: Dr. Whitmore (MAPA) Mailing Address: _____

TENANT: Test hole #1 Mailing Address: _____

DRILLER: Aquamasters, Inc. Mailing Address: Box 97, Rustburg, Va.

WELL LOCATION: County Bedford Approx. 1/2 ~~text~~ miles off U.S. Hwy. 501 (direction) of
on St. Rd. 644 and _____ feet
miles southeast (direction) of Boonsboro

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

DATE STARTED: 3-27-72 DATE COMPLETED: 3-29-72

TYPE OF DRILL RIG USED: Air Rotary TOTAL DEPTH 247 feet

WATER LEVEL: Stands 48 feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method air

Drawdown _____ feet

Rate 5 gal. per min.

Duration _____ hrs., _____ min.

WATER ZONES: from 50 to 75 feet

from _____ to _____ feet

from _____ to _____ feet

WATER: Color _____ Taste _____

Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other subdivision

WATER ANALYSIS AVAILABLE: Yes _____ No _____

DRILL CUTTINGS SAVED: Yes 25 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: 6 inches from 0 to 247 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

SCREEN SIZE: _____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

CASE SIZE: _____ inches from _____ to _____ 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: 3507

Date rec'd: 4-3-72 Date Processed: 4-14-72

Sample Interval: from 0 to: 247

PROPERTY: Dr. Whitmore
(MAPA Test Hole #1)

Number of samples: 25

COMPANY: Aquamasters, Inc.

Total Depth: 247'

COUNTY: Bedford (Boonsboro)

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	-	-	-
180 - 190	-	-	-
190 - 200	-	-	-
200 - 210	-	-	-
210 - 220	-	-	-
220 - 230	-	-	-
230 - 240	-	-	-
240 - 247	-	-	-

All intervals have both washed and unwashed samples

OWNER: Dr. Whitmore (MAPA TH#1)
DRILLER: Aquamasters, Inc.
COUNTY: Bedford (Boonsboro)

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TD: 247'

GEOLOGIC LOG

Depth
(in feet)

0-10	Weathered rock material — fragments of yellow-brown iron-oxide stained quartz and greenish-yellow biotite; yellow-brown clay; trace of iron-oxide (hemitite) cemented quartz-grain aggregates
10-20	Weathered biotite gneiss — quartz, feldspar, biotite and sericite; some fragments are iron-oxide stained and some feldspars are partly kaolinitized; trace of garnet
20-30	Biotite gneiss — very light gray, fine grained; quartz, feldspar and biotite; some coarse grained crystalline, pink and white potassium feldspar and coarse grains of chalcopyrite; traces of calcite and weathered biotite gneiss
30-40	Biotite gneiss — very light gray, fine grained; quartz, feldspar, biotite and garnet (garnets range up to 3mm)
40-50*	Biotite gneiss — light gray, fine grained; quartz, feldspar, biotite and sericite; most fragments are iron-oxide stained and feldspars are partly kaolinitized
50-90	Biotite gneiss — medium gray, fine grained; quartz, feldspar and biotite
90-190	Biotite gneiss — medium gray, coarse grained; quartz, feldspar, biotite and sericite; some feldspars are pink and very coarse grained
190-200*	" many fragments are iron-oxide stained
200-220	Biotite gneiss — light-medium gray, fine grained; quartz, feldspar and biotite; traces of pyrite and epidote
220-230	" no pyrite or epidote
230-247	" "

OWNER: Dr. Whitmore
(MAPA TH#1)

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GEOLOGIC SUMMARY

<u>Thickness</u>	<u>Rock Unit</u>	<u>Age</u>
0-10'	Weathered rock material	—
10-247'	Biotite gneiss (Marshall Fm. ?)	Precambrian

Approximate mineral composition: quartz 35%, feldspars 55%, biotite 10%, with traces of pyrite, chalcopyrite, garnet and epidote

*Probable weathered zones if no sidewall contamination from above; possible water-bearing zones

Virginia Division of Mineral Resources
Thomas M. Gathright II, Geologist
January 8, 1973