

OWNER: Town of Round Hill, Well #1
DRILLER: Harry W. Lawson
COUNTY: Loudoun (Round Hill)

VDMR: 2007
WWCR: 603
TOTAL DEPTH: 560'

GEOLOGIC LOG

Depth in feet

10	Greenstone - tan, weathered and broken; aphanitic, microcrystalline and cryptocrystalline; feldspar, quartz, chlorite, biotite, epidote and sericite, iron-oxide staining and coating; minor clay and silt
20	"
30	"
40	Greenstone - bluish-gray, aphanitic, microcrystalline and cryptocrystalline; feldspar, quartz, chlorite, biotite, epidote, sericite, amphiboles, and trace of pyrite
50	"
60	"
70	"
80	"
90	"
100	"
110	"
120	"
130	"
140	"
150	" light blue-gray; sheared; vein quartz
160	" "
170	"

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- 180 Greenstone-mylonite - light bluish-gray, aphanitic, cryptocrystalline to slightly microcrystalline; slightly fissile; sheared; slickensides
- 190 "
- 200 Greenstone - bluish-gray, aphanitic, microcrystalline to cryptocrystalline; quartz, feldspar, chlorite, biotite, epidote, sericite, amphiboles, and a trace of pyrite
- 210 "
- 220 Greenstone-mylonite - light-gray, aphanitic, cryptocrystalline to slightly microcrystalline; slightly fissile, sheared, slickensides; feldspar, quartz, sericite, epidote and trace of chlorite
- 230 "
- 240 Mylonite - very light greenish-gray, aphanitic, cryptocrystalline, slightly fissile; sheared, slickensides; phyllonitic
- 250 "
- 260 " minor pinkish cryptocrystalline material
- 270 Greenstone-mylonite - light-gray, aphanitic, cryptocrystalline to slightly microcrystalline; slightly fissile, sheared, slickensides; feldspar, quartz, sericite, epidote and trace of chlorite
- 280 "
- 290 "
- 300 Mylonite - very light greenish-gray, aphanitic, cryptocrystalline; slightly fissile, sheared, slickensides; phyllonitic
- 310 "
- 320 Greenstone - bluish-gray, aphanitic, microcrystalline to cryptocrystalline; feldspar, quartz, chlorite, biotite, hematitic quartz and epidote
- 330 " greenish-gray; a large increase in epidote
- 340 " "

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350	Greenstone - bluish-gray, aphanitic, microcrystalline to cryptocrystalline; feldspar, quartz, chlorite, biotite, hematitic quartz, and epidote
360	"
370	"
380	"
390	" with iron-oxide veinlets
400	" "
410	"
420	"
430	" with trace of calcite crusts
440	" "
450	" "
460	"
470	"
480	" more epidote, trace of pyrite
490	" "
500	Mylonite - light greenish-gray, aphanitic, cryptocrystalline to slightly microcrystalline; slightly fissile, sheared, slickensides; phyllonitic
510	No sample
520	Greenstone - bluish-gray, aphanitic, microcrystalline to cryptocrystalline; feldspar, quartz, chlorite, biotite, epidote; traces of hematitic quartz and vein calcite
530	"
540	"
550	"
560	"

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GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
10-560 ¹	Catoctin Formation	Cambrian (?)

Virginia Division of Mineral Resources
Robert G. Willson, Geologist
November 28, 1967

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

3667
Charlottesville, VA 22903

JAMES L. CALVER, COMMISSIONER

McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Town of Round Hill Mailing Address: Round Hill, Va.

TENANT: Well #1 Mailing Address: _____

DRILLER: Harry W. Lawson Mailing Address: Leesburg, Va. Route 4

WELL LOCATION: County Loudoun Approx. 800 ^{feet}~~miles~~ west (direction) of _____

Round Hill reservoir and 5 ^{feet}~~miles~~ northwest (direction) of Round Hill

(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 1967 DATE COMPLETED: August 1967

TYPE OF DRILL RIG USED: Air Rotary TOTAL DEPTH 560 feet

WATER LEVEL: Stands 5 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 57 to 58 feet

from 120 to 121 feet

from _____ to _____ feet

WATER: Color _____ Taste _____

Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town X School _____

Industry _____ 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: * insufficient water supply

HOLE SIZE: 6 inches from 0 to 560 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: 6 inches from 0 to 4 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

GROUTING: Method _____

Material _____ Depth _____ feet

PUMP: Type _____

Capacity _____ gal. per min

Depth of intake _____ feet

FURNISHED BY: Harry W. Lawson

DATE: August 1967

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	37	Shale	
38	100	Greenstone	3 gpm @ 57'
100	120	Shale	2 gpm @ 120'
120	300	Greenstone	cracks at 310' (dry)
300	320	Quartz and greenstone	
320	500	Greenstone	
500	510	Quartz and shale	large cracks at 505' (dry)
510	560	Greenstone	

INTERVAL SHEET

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VDMR Well No: 2007

Date rec'd: 10/3/67

Sample Interval: from 10' to: 560'

PROP: Town of Round Hill, Well #1

Number of samples: 55

COMP: Harry W. Lawson

Total Depth: 560'

COUNTY: Loudoun (Round Hill)

Oil or Gas: Water: X Exploratory:

From-To	From-To	From-To	From-To
-	300 -	-	-
10 -	310 -	-	-
20 -	320 -	-	-
30 -	330 -	-	-
40 -	340 -	-	-
50 -	350 -	-	-
60 -	360 -	-	-
70 -	370 -	-	-
80 -	380 -	-	-
90 -	390 -	-	-
100 -	400 -	-	-
110 -	410 -	-	-
120 -	420 -	-	-
130 -	430 -	-	-
140 -	440 -	-	-
150 -	450 -	-	-
160 -	460 -	-	-
170 -	470 -	-	-
180 -	480 -	-	-
190 -	490 -	-	-
200 -	500 -	-	-
210 -	-	-	-
220 -	520 -	-	-
230 -	530 -	-	-
240 -	540 -	-	-
250 -	550 -	-	-
260 -	560 -	-	-
270 -	-	-	-
280 -	-	-	-
290 -	-	-	-

All intervals have both washed and unwashed samples.