

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

Box 3667  
Charlottesville, VA 22903

JAMES L. CALVER, COMMISSIONER

McCormick Road  
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Eugene K. Souder Mailing Address: \_\_\_\_\_

TENANT: Madison Run Terrace Mailing Address: \_\_\_\_\_

DRILLER: George F. Burner Mailing Address: McGaheysville, Va.

WELL LOCATION: County Rockingham Approx. 1 <sup>feet</sup> miles Southeast (direction) of  
Port Republic on 629 and \_\_\_\_\_ (direction) of \_\_\_\_\_

(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 1, 1969 DATE COMPLETED: August 13, 1969

TYPE OF DRILL RIG USED: Cable TOTAL DEPTH 215 feet

WATER LEVEL: Stands 135 feet below surface OR  
has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method Submersible pump  
Drawdown 15 feet  
Rate 20 gal. per min.  
Duration 48 hrs., 0 min.

HOLE SIZE: 10 inches from 0 to 100 feet  
6 inches from 100 to 215 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

SCREEN SIZE: \_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER ZONES: from 212 1/2 to 215 feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet

CASE SIZE: 6 inches from 0 to 212 1/2 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color Clear Taste \_\_\_\_\_  
Odor None Temp. 52 °F

GROUTING: Method Pressure  
Material cement & water Depth 100 feet

WELL TO SUPPLY: (check one) Home \_\_\_\_\_  
Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_  
Industry \_\_\_\_\_ Other Sub Division

PUMP: Type Submersible  
Capacity 12 gal per min  
Depth of intake 192 feet

WATER ANALYSIS AVAILABLE: Yes \_\_\_\_\_ No X  
2/

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: \_\_\_\_\_

LOG

FURNISHED BY: Burner Well Drilling Co. DATE: \_\_\_\_\_

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED ( gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	129	Boulders and slate	
129	163	Broken formation and sand and dirt	
163	190	Grey slate and dirt	
190	215	Soapstone	

(Use additional forms if necessary)

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

INTERVAL SHEET

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C- 599  
Well Repository No.: W- 2670

Date rec'd: 9/29/69 Date Processed:

Sample Interval: from 0 to: 210

PROPERTY: Eugene K. Souder

Number of samples: 21

COMPANY: George F. Burner

Total Depth: 215

COUNTY: Rockingham (Port Republic)

Oil or Gas: Water:  Exploratory:

From-To	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	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
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-	-	-	-	-
-	-	-	-	-

All interials have both washed and unwashed samples.

OWNER: E. K. Souder (Madison Run Terrace)  
DRILLER: G. F. Burner Well Drilling Co.  
COUNTY: Rockingham (Port Republic)

W-2670  
C-599  
T.D.-215'

GEOLOGIC LOG

Thickness  
(in feet)

0 - 10	Alluvial terrace deposit — angular fragments of light-gray, medium to fine-grained quartz sandstone, dark gray granodiorite (?), coarse, dark-gray granite, tan weathered phyllite, and red-brown weathered, round quartz grains with a tan, silty soil matrix
10 - 20	Alluvial terrace deposit — similar to above, but more fine sand and silty-clay soil matrix, tan to pink
10 - 20	Alluvial terrace deposit — similar to above; with some larger fragments of weathered or very friable, silty-clay matrix, quartz-pebble sandstone, and light-gray phyllite chips
30 - 40	" "
40 - 50	Alluvial terrace deposit — very coarse, angular fragments of medium-grained, weathered, feldspathic sandstone, quartz sandstone, quartz, clay-cemented quartz sand, fine chips of phyllite, angular quartz, tan silt and fine sand
50 - 60	Alluvial terrace deposit — similar to above, with a few fine magnetite grains, bluish-gray quartz, and rounded, white, quartz-sandstone pebbles
60 - 70	Alluvial terrace deposit — similar to above; some fragments of red-brown to purple sandstone
70 - 80	Alluvial terrace deposit — fine chips of quartz, quartz-sericite phyllite, broken blueish-gray manganese nodules with botrioidal surface texture
80 - 90	Alluvial terrace deposit — light tan to white, fine clayey silt to sand with bluish-gray manganese fragments, manganese-cemented kaolinitized feldspar or clay-ball breccia fragments, fibrous to phyllitic white quartz chips, large angular gray chert
90 - 100	Alluvial terrace deposit — 30 percent coarse-to-fine angular quartz and chert fragments; remainder is light orange-red silty-clay, some of which forms large granular aggregates

- 100 - 110 Alluvial terrace deposit — 30 percent coarse-to-fine angular quartz and chert fragments; remainder is light orange-red silty-clay, some of which forms large granular aggregates
- 110 - 120 as above, but with less manganese and more redish clay,
- 120 - 130 as above, with more abundant coarse fragments

ELBROOK FORMATION (130-215')

- 130 - 140 Alluvial terrace deposit — dolostone contact — mixture of brown-stained, angular to rounded, quartzite fragments, fine coxcomb-quartz vein fillings, weathered (tan) quartz-sericite phyllite fragments, botryoidal manganese nodules, vein quartz (vuggy) with manganese films and fine light-gray saccharoidal, dolostone chips
- 140 - 150 Dolostone — mostly fresh fragments of light-gray, saccharoidal dolostone, some weathered fragments; dolostone is speckled with fine brown crystals
- 150 - 160 Dolostone — light-to medium-gray dolostone; few chert fragments
- 160 - 170 Interbedded quartz-sericite phyllite and dolostone — yellow, ocher-stained, weathered fragments, vuggy calcite vein material, pink to tan quartz-sericite phyllite chips, gray dolostone chips
- 170 - 180 Interbedded quartz-sericite phyllite and dolostone — similar to 160-170 interval, but phyllite chips predominate; some chips show fine crinkle crenulation on foliation surface; some very fine, weathered sandstone (ocherous yellow)
- 180 - 190 Interbedded quartz-sericite phyllite and dolostone — light gray saccharoidal dolomite, white vuggy calcite, white to tan, quartz-sericite phyllite
- 190 - 200 Interbedded quartz-sericite phyllite and dolostone — white vuggy calcite vein material, gray to tan-stained quartz-sericite phyllite; minor amount of light-gray saccharoidal dolostone
- 200 - 210 Dolostone — predominantly light-gray, saccharoidal dolomite, some red-stained, weathered fragments, minor vuggy carbonate vein material

Upper?

Lower?

GEOLOGIC SUMMARY

<u>Thickness</u> (in feet)	<u>Rock Unit</u>	<u>Age</u>
0 - 130	Alluvial Terrace Deposits	Holocene
130 - 215	Elbrook Formation	Cambrian

VA. DIVISION OF MINERAL RESOURCES  
William S. Henika, Geologist  
November 17, 1975