

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: C. L. Long Mailing Address: Bealeton, Va.

TENANT: _____ Mailing Address: _____

DRILLER: Leazer Pump & Well Co. Mailing Address: Remington, Va.

WELL LOCATION: County Fauquier Approx. 1/4 ~~xxx~~ miles west (direction) of
Opal on St. Rd. 687 and 175 feet south (direction) of St. Rd. 687

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

DATE STARTED: April 11, 1972 DATE COMPLETED: April 12, 1972

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 250 feet

WATER LEVEL: Stands 40 feet below surface OR
has NATURAL flow of _____ gallons per minute

YIELD TEST: Method air HOLE SIZE: 8 3/4 inches from 0 to 10 feet
Drawdown 210 feet 6 1/16 inches from 10 to 250 feet
Rate 25 gal. per min. _____ inches from _____ to _____ feet
Duration 2 hrs., 0 min. SCREEN SIZE: _____ inches from _____ to _____ feet

WATER ZONES: from 240 to 242 feet _____ inches from _____ to _____ feet
from _____ to _____ feet _____ inches from _____ to _____ feet
from _____ to _____ feet _____ inches from _____ to _____ feet

WATER: Color clear Taste O.K. _____ inches from _____ to _____ feet
Odor none Temp. _____ °F _____ inches from _____ to _____ feet

WELL TO SUPPLY: (check one) Home _____ GROUTING: Method Natural
Farm _____ Town _____ School _____ Material _____ Depth _____ feet

Industry _____ Other _____ PUMP: Type _____
Capacity _____ gal per min
WATER ANALYSIS AVAILABLE: Yes No _____ Depth of intake _____ feet

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: _____

W# 3510
C# 155

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LOG

FURNISHED BY: Harold E. Leazer

DATE: April 15, 1972

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	9	Overburden	
9	20	Greenstone?	
20	40	Greenstone?	
40	50	Mostly dark gray (gabbro or greenstone?)	
50	60	Green rock - some red siltstone or sandstone intruded by green rock or gabbro	
60	70	Red siltstone or sandstone	
70	80	Sandstone or siltstone (metamorphosed by igneous intrusion?)	
80	90	Sandstone or siltstone	
90	120	Sandstone or siltstone - some green rock	
120	130	Some sandstone or siltstone - mostly greenstone (or green sandstone?)	
130	160	Some sandstone or siltstone - mostly greenstone (or green sandstone?)	
160	170	Some greenstone or sandstone - mostly red or brown siltstone	
170	180	Greenstone or sandstone	
180	190	Greenstone or sandstone - some red to brown siltstone or sandstone	
190	220	Greenstone or sandstone - some red sandstone or siltstone	
220	240	Green rock, dark green, some red sandstone or siltstone - shale	
240	250	Greenstone or sandstone - some shale and siltstone	

(Use additional forms if necessary)

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

INTERVAL SHEET

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C 166
 Well Repository No: 3510

Date rec'd: 4-17-72 Date Processed: 4-18-72

Sample Interval: from 0 to:250'

PROPERTY: C. L. Long

Number of samples: 25

COMPANY: Leazer Pump & Well Co.

Total Depth: 250'

COUNTY: Fauquier (Opal)

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- 10	-	-	-
110- 20	-	-	-
120- 30	-	-	-
130- 40	-	-	-
140- 50	-	-	-
150- 60	-	-	-
160- 70	-	-	-
170- 80	-	-	-
180- 90	-	-	-
190- 200	-	-	-
200- 10	-	-	-
210- 20	-	-	-
220- 30	-	-	-
230- 40	-	-	-
240- 50	-	-	-
-	-	-	-

All intervals have both washed and unwashed samples

OWNER: C. L. Long
DRILLER: Leazer Pump & Well Co.
COUNTY: Fauquier (Opal)

W# 3510
C# 166
T.D. 250'

GEOLOGIC LOG

Depth
(in feet)

OVERBURDEN (0-10')

0-10 Weathered diabase - light brown to tan; most fragments are deeply weathered; a few unweathered rock chips are dark green, fine-crystalline diabase

NEWARK GROUP (10-250')

10-20 Diabase - dark greenish-gray; medium crystalline; with pyroxenes and calcite-filled fractures

20-30 "

30-40 "

40-50 "

50-60 Welded tuff - pinkish gray; very fine to medium crystalline; conchoidal fracture; with amygdules of feldspar, calcite and prehnite (?); some calcite veinlets and a few fragments of dark greenish-gray diabase

60-70 "

70-80 "

80-90 "

90-100 "

100-110 Diabase - dark greenish-gray and pink; medium crystalline; with pyroxenes, calcite, calcite-filled fractures and feldspars

110-120 "

120-130 "

130-140 "

140-150 "

150-160 "

160-170 "

OWNER: C. L. Long

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W# 3510

C# 166

170-180 Diabase - dark greenish-gray and pink; medium crystalline; with pyroxenes, calcite, calcite-filled fractures and feldspars

180-190 "

190-200 "

200-210 "

210-220 "

220-230 Diabase and welded tuff - dark greenish-gray and pinkish gray: dark greenish-gray fragments are medium crystalline; with pyroxenes, calcite and calcite veins: pinkish-gray fragments are fine-to medium-crystalline; massive; amygdules of feldspar and calcite; a few fragments have calcite veins; some clear to milky quartz and a trace of magnetite

230-240 "

240-250 "

GEOLOGIC SUMMARY

<u>Thickness (ft)</u>	<u>Rock Unit</u>	<u>Age</u>
0-10	Overburden	-
10-250	Newark Group	Triassic

Virginia Division of Mineral Resources
E. B. Nuckols III, Geologist
June 8, 1972