

OWNER: National Park Service
(Otter Creek, Well #1)
DRILLER: Frank W. Martin Drilling Co., Inc.
COUNTY: Amherst (Snowden)

VDMR: 2079
WWCR: 171
TOTAL DEPTH: 245'

GEOLOGIC LOG

Depth in feet

0-3	Saprolite - tan, weathered and iron-oxide-stained; slate, vein quartz and clay
3-10	Slate or phyllite - gray; cryptocrystalline, fissile, soft; sheared with slickensides
10-20	"
20-30	"
30-40	"
40-50	"
50-60	"
60-70	" with vein quartz
70-80	" "
80-90	"
90-100	"
100-110	"
110-120	"
120-130	"
130-140	"
140-150	"
150-160	" with vein quartz
160-170	" "
170-180	"
180-190	" with vein quartz

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#2079

190-200	Slate or phyllite - gray; cryptocrystalline, fissile, soft; sheared with slickensides; with vein quartz; greenish-gray
200-210	Slate or phyllite - gray; cryptocrystalline, fissile, soft; sheared with slickensides
210-220	"
220-230	No sample
230-245	Slate or phyllite - gray; cryptocrystalline, fissile, soft; sheared with slickensides

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-3'	Saprolite	
3-245'	Swift Run Formation	Precambrian (?)

Virginia Division of Mineral Resources
Robert G. Willson, Geologist
January 11, 1968

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

VDMR: 2079
WWCR: 171

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: National Park Service Mailing Address: Box 1710 - Roanoke, Virginia

TENANT: Blue Ridge Parkway (Otter Creek, Well #1) Mailing Address: _____

DRILLER: Frank W. Martin Drilling Co., Inc. Mailing Address: 5163 Starkey Rd. S. W. Roanoke, Virginia 24014

WELL LOCATION: County Amherst Approx. 5 ^{feet}/_{miles} northeast (direction) of James River and on east side (direction) of Blue Ridge Pkwy.

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

DATE STARTED: July 28, 1967 DATE COMPLETED: July 29, 1967

TYPE OF DRILL RIG USED: Davey M8A Air Drill TOTAL DEPTH 245 feet

WATER LEVEL: Stands _____ feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Pump

Drawdown _____ feet

Rate 3 gal. per min.

Duration _____ hrs., _____ min.

HOLE SIZE: 10 inches from 0 to 10 feet

6 inches from 10 to 245 feet

_____ inches from _____ to _____ feet

SCREEN SIZE: _____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

WATER ZONES: from Various to _____ feet

from _____ to _____ feet

from _____ to _____ feet

CASE SIZE: 6 1/4 inches from 0 to 8'4" feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

WATER: Color Clear Taste _____

Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other Park

GROUTING: Method Submersible

Material _____ Depth _____ feet

PUMP: Type _____

Capacity _____ gal. per min

Depth of intake _____ feet

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: _____

LOG

FURNISHED BY: Frank W. Martin Drilling Co., Inc. DATE: December 4, 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	245	Shell and limestone	

INTERVAL SHEET

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WWCR: 171
VDMR Well No: 2079

Date rec'd: 1/4/68

Sample Interval: from 0' to: 245'

PROP: National Park Service (Otter Creek, Well #1)

Number of samples: 24

COMP: F. Martin Drilling Co.

Total Depth: 245'

COUNTY: Amherst (Snowden)

Oil or Gas: Water:X Exploratory:

From-To	From-To	From-To	From-To
0 - 3	-	-	-
3 - 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	-	-	-
-	-	-	-
230 - 245	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

All intervals have both washed and unwashed samples