

OWNER: National Park Service
(Peaks of Otter, Well #1)
DRILLER: Frank W. Martin Drilling Co., Inc.
COUNTY: Bedford (Peaksville)

VDMR: 2077
WWCR: 172
TOTAL DEPTH: 200'

GEOLOGIC LOG

Depth in feet

0-10	Saprolite - tan; weathered and iron-oxide stained; fine- to medium-grained granodiorite and vein quartz
10-20	"
20-30	"
30-40	"
40-58	"
58-60	Biotite-chlorite schist - greenish-bluish-gray; fine-grained, foliated, phyllitic; chlorite, biotite and quartz
60-70	Epidosite - greenish-tan; weathered and iron-oxide stained, aphanitic, microcrystalline to cryptocrystalline epidote with some medium- to fine-grained hypersthene granodiorite; feldspar, hypersthene, quartz, and biotite
70-80	Chlorite-biotite schist - greenish-black; foliated, fine-grained; chlorite, biotite and quartz
80-90	Hypersthene granodiorite - gray; slightly-weathered and iron-oxide stained, non-foliated, medium-grained; feldspar, hypersthene, quartz, epidote, serpentine, and pink feldspar; sheared, slickensides
90-100	"
100-110	" with chlorite; no weathering or iron-oxide staining
110-120	" "
120-130	No sample
130-140	Hypersthene granodiorite - dark-greenish-gray; slightly foliated, medium- to fine-grained; feldspar, chlorite, hypersthene, quartz, serpentine, and pink feldspar; sheared, slickensides; trace of pyrite

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140-150	Hypersthene granodiorite - dark-greenish-gray; slightly foliated, medium- to fine-grained; feldspar, chlorite, hypersthene, quartz, serpentine, and pink feldspar; sheared, slickensides; trace of pyrite
150-160	"
160-170	"
170-180	"
180-190	"
190-200	"

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-58'	Saprolite	
58-200'	Pedlar Formation	Precambrian

Virginia Division of Mineral Resources
Robert G. Willson, Geologist
January 10, 1968

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

VDMR - 2077
WWCR - 172

MAILING ADDRESS:

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: P. O. Box 1710 - Roanoke, Va.

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

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

WELL LOCATION: County Bedford Approx. 300 ^{feet}~~miles~~ south (direction) of
Blue Ridge Parkway and 600 ^{feet}~~miles~~ west (direction) of State Rt. 43

(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 2, 1967 DATE COMPLETED: August 3, 1967

TYPE OF DRILL RIG USED: Davey M8A Air Drill TOTAL DEPTH 200 feet

WATER LEVEL: Stands _____ feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Pump

Drawdown _____ feet

Rate 20 gal. per min.

Duration _____ hrs., _____ min.

WATER ZONES: from 120 to 125 feet

from 150 to 160 feet

from _____ to _____ feet

WATER: Color Clear Taste _____

Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other Park

WATER ANALYSIS AVAILABLE: Yes No _____

DRILL CUTTINGS SAVED: Yes 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: 10 inches from 0 to 58 feet

6 inches from 58 to 200 feet

_____ inches from _____ to _____ feet

SCREEN SIZE: _____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

CASE SIZE: 6 1/4 inches from 0 to 58 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

GROUTING: Method _____

Material _____ Depth _____ feet

PUMP: Type Submersible

Capacity _____ gal. per min

Depth of intake _____ feet

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	200	Granite and quartz	Struck water at 120 to 125 and 150 to 160

INTERVAL SHEET

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VDMR Well No: 2077

Date rec'd: 1/4/68

Sample Interval: from 0 to: 200'

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

Number of samples: 19

COMP: F. Martin Drilling Co.

Total Depth: 200'

COUNTY: Bedford (Peaksville)

Oil or Gas: Water~~X~~ Exploratory:

From-To	From-To	From-To	From-To
0 - 10	-	-	-
10 - 20	-	-	-
20 - 30	-	-	-
30 - 40	-	-	-
40 - 58	-	-	-
58 - 60	-	-	-
60 - 70	-	-	-
70 - 80	-	-	-
80 - 90	-	-	-
90 - 100	-	-	-
100 - 110	-	-	-
110 - 120	-	-	-
-	-	-	-
130 - 140	-	-	-
140 - 150	-	-	-
150 - 160*	-	-	-
160 - 170*	-	-	-
170 - 180	-	-	-
180 - 190*	-	-	-
190 - 200	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

* Unwashed samples only