OWNER: National Park Service

(Peaks of Otter, Well #2)

DRILLER: Frank W. Martin Drilling Co., Inc.

COUNTY: Bedford (Peaksville)

VDMR: 2087 WWCR: 173 TOTAL DEPTH: 175<sup>t</sup>

## GEOLOGIC LOG

Depth in feet	
0-10	Saprolite - tan; weathered and iron-oxide-stained, coarse, granodiorite; quartz, feldspar, hypersthene, and clay
10-20	No sample
20-30	Saprolite - tan; weathered and iron-oxide-stained, coarse, granodiorite; quartz, feldspar, hypersthene, and clay
30-40	11
40~50	11
50-60	Hypersthene granodiorite - dark-greenish-gray; medium- to coarse-grained, holocrystalline; feldspar, hypersthene, quartz, chlorite, and trace of pyrite; sheared, slickensides
60-70	11
70-80	п
80-90	п
90-100	ti
100-110	II
110-120	11
120-130	11
130-140	***
140-150	11
150-165	with chlorite schist
165-175	t t

OWNER: National Park Service (Peaks of Otter, Well #2)

#2087

## GEOLOGIC SUMMARY

Rock Unit

Age

0-50t

Saprolite

50-175°

Pedlar Formation

Precambrian

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

## COMMONWEALTH OF VIRGINIA

VDMR: 2087 WWCR: 173

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

ARKS:\_\_\_\_

MAILING ADDRESS: DIVISION OF MINERAL RESOURCES OFFICE ADDRESS: JAMES L. CALVER, COMMISSIONER P 3667 McCormick Road Charlottesville, Virginia rlottesville, VA 22903 WATER WELL COMPLETION REPORT OWNER: National Park Service Mailing Address: P. O. Box 1710 - Roanoke, Va. TENANT: Blue Ridge Parkway (Peaks of Otter, Mailing Address:\_ Well #2) 5163 Starkey Rd. S. W. DRILLER: Frank W. Martin Drilling Co., Inc. Mailing Address: Roanoke, Virginia 24014 WELL LOCATION: County <u>Bedford</u> Approx. 300 feet east \_\_\_\_(direction) of State Route 43 and 200 feet south (direction) of Parkway (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 4, 1967 DATE COMPLETED: August 4, 1967 TYPE OF DRILL RIG USED: Davey M8A Air Drill TOTAL DEPTH 175 feet WATER LEVEL: Stands\_\_\_\_\_feet below surface OR has NATURAL flow of\_\_\_\_\_gallons per minute. YIELD TEST: Method Pump HOLE SIZE: 10 inches from 0 to 40 feet Drawdown \_\_\_\_\_feet 6 1/4 inches from 40 to 175 feet Rate 30 gal. per min. \_\_\_\_inches from \_\_\_\_to \_\_\_feet SCREEN SIZE:\_\_\_\_inches from \_\_\_ \_\_\_\_to\_\_\_ Duration \_\_\_\_\_hrs., \_\_\_\_min. WATER ZONES: from 50 to 55 feet \_\_\_\_\_inches from \_\_\_\_\_to \_\_\_\_feet \_\_\_\_inches from \_\_\_\_to\_\_\_feet from \_\_\_\_\_to\_\_\_\_feet CASE SIZE: 6 1/4 inches from 0 to 40 feet from \_\_\_\_\_to\_\_\_\_feet WATER: Color Clear Toste \_\_\_\_inches from\_\_\_to\_\_\_feet \_\_\_\_inches from \_\_\_\_to\_\_\_feet Odor\_\_\_\_Temp.\_\_\_ WELL TO SUPPLY: (check one) Home GROUTING: Method Material \_\_\_\_\_\_ Depth \_\_\_\_\_ feet Farm \_\_\_\_ Town \_\_\_ School \_\_\_\_ Industry\_\_\_\_Other\_ Park PUMP: Type Submersible Capacity\_\_\_\_\_gal. per min WATER ANALYSIS AVAILABLE: Yes X No \_\_\_ Depth of intake \_\_\_ 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.)

COMMONWEALTDOLF VIRGINIA

FURNISHED BY: Frank W. Martin Drilling Co., Inc. DATE: December 4, 1967

JAMES L. CALVER, COMMISSIONER nariottesHTIQ30 irgini TYPE OF ROCK OR SOIL PENETRATED WAILH REMARKS (feet) (water, caving, shot, screen, sample, etc.) (gravel, clay, etc., hardness, color, etc.) FROM TO TENANT: Blue Ridge Parkway (Peaks of Otter, Moiling Addrss, and granite well #2)

105 of 106 ta rateway Well #2) DRILLER Frank W. Martin Drilling Co., Inc. Mading Address Boanoke, Virginia 24014 WELL LOCATION: County Bedford Approx 300 (direction) and 200 swess south (direction) of (GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC - ON 1967 DATE COMPLETED. August 4, DATE STARTED August 4, 1967 TYPE OF DRILL RIG USED Davey MSA Air Drill TOTAL DEPTH WATER LEVEL: Stands feet below surface OR has NATURAL flow of \_\_\_\_\_allons per minute HOLE SIZE: 10 inches from 0 to 40 feet VIELD TEST: Method Pump 40 to 175 feet WATER ZONES: from 50 CASE SIZE: 6 1/4 inches from 0 WATER: Color Clear Industry Other Park PUMP: Tyne Submersibl ner min WATER ANALYSIS AVAILABLE Yes 1 \_\_ No\_ Yes\_X\_No\_\_\_ (DRILL CUTTINGS SHOULD BE CULLECTED AT 10 FOOT INTERVALS THESE SAMPLES MAY BE OFFICE EXPRESS COLLECT SAMPLE BAGS ARE FURNISHED FREE OF CHARGE UPON REQUEST

INTERVAL SHEET WWCR; 173 Page 1 of 1 VDMR Well No: 2087 Date rec'd: Sample Interval: from 0' 1/10/68 to: 175' PROP: Number of samples: National Park Service (Peaks of Otter, Well #2) COMP: Total Depth: F. W. Martin Drilling 1751 COUNTY: Oil or Gas: Water: Exploratory: Bedford (Peaksville) From-To From-To From-To From-To 0 -10 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 -165 165 -175 All intervals have both washed and unwashed samples