OWNER: Bull Run Development Corporation, Well #3
DRILLER: H. L. Singhas
LOCATION: Prince William (Haymarket)

VDMR - 1679
WWCR - 286
TOTAL DEPTH - 410'

GEOLOGIC LOG

Depth in Feet

0 - 10	Soil — buff, sandy; with iron-stained quartzite and gray phyllitic fragments.
10 - 20	"
20 - 30	" and weathered quartzite.
30 - 40	"
40 - 50	"
50 - 60	Saprolite — weathered white quartzite with sericite (fault zone?).
60 - 70	"
70 - 80	"
80 - 90	"
90 - 100	"
100 - 110	Saprolite — weathered, crumbly, white quartzite; massive iron-oxide stained.
100 - 120	Saprolite — weathered, white, clayey quartzite.
120 - 130	Saprolite — weathered, crumbly, sericitic, clayey, white quartzite.
130 - 140	"
140 - 150	"
150 - 160	"
160 - 170	"
170 - 180	"
180 - 190	"
190 - 200	"
200 - 210	"

210 - 220 Saprolite — weathered, crumbly, sericitic, clayey, white quartzite.

220 - 230 "

230 - 240 Micaceous Quartzite — white, vitreous; with fine-grained sericitic cleavage; individual quartz-grain boundaries not distinguishable; Magnetite and specular hematite (0. 1 - 0. 5 mm grains) occur in traces parallel to cleavage.

240 - 250 "

250 - 260 "

260 - 270 " light gray, more phyllitic

270 - 280 "

280 - 290 " light gray, more phyllitic

290 - 300 Micaceous Quartzite — white to gray, vitreous; with fine-grained, silvery, sericitic cleavage; Individual quartz-grain boundaries not distinguishable; black, platy, semi-hedral (0. 1 mm) specular hematite grains occur in trace amounts.

300 - 310 Micaceous Quartzite — white to gray, with fine-grained, sericitic cleavage; individual quartz-grain boundaries not distinguishable.

310 - 320 "

320 - 330 "

330 - 340 " phyllitic, pulvarized sample

340 - 350 " "

350 - 360 " "

360 - 370 "

370 - 380 "

380 - 390 "

390 - 400 Micaceous Quartzite and Phyllite — gray, vitreous quartzite without grain boundaries and with sericitic cleavage and gray, silvery, lustrous phyllite; Black, platy, specular hematite occurs as plates, and black platy, clearable grains up to 2 mm.

400 - 410	Micaceous Quartzite — gray, vitreous quartzite; grain boundaries indistinguishable.
410 - 420	Sericitic Clay — cream-colored, crumbly, sericitic clay, and very fine sand (Fault gouge?)

GEOLOGIC SUMMARY

	Rock Unit	Age
0 - 20	Soil	
20 - 230	Saprolitic Overburden Fault (?)	Early Cambrian
230 - 420	Weverton Formation Fault (?) at 420	Early Cambrian

Virginia Division of Mineral Resources
Richard S. Good, Geologist
April 20, 1967