U.S. GEOLOGICAL SURVEY.
J.W. POWELL, DIRECTOR.

AREAL GEOLOGY

VIRGINIA-MARYLAND
FREDERICKSBURG SHEET.

LEGEND

SUPERFICIAL

PLEISTOCENE
- Pc — Columbia formation (brick clays and sands)

SEDIMENTARY

NEOCENE
- Nl — Lafayette formation (gravels and loam)
- Nc — Chesapeake formation (shell marl,) (sand, and clay)

EOCENE
- Ep — Pamunkey formation (green sand marl)

CRETACEOUS
- Kp — Potomac formation (sandstone)

- q — Quantico (slate)

CRYSTALLINE
- g — Granite, gneiss and schist

Letter symbols placed in brackets indicate the formation underlying the Pleistocene deposits.

Henry Gannett, Chief Geographer.
Gilbert Thompson, Geographer in charge.
Triangulation and Shore Lines by the U.S. Coast and Geodetic Survey.
Topography by E.C. Barnard and D.C. Harrison.
Surveyed in 1887-8.

Harrison
Barnard

Scale $\frac{1}{125,000}$

0 1 2 3 4 5 6 Miles

Contour Interval 50 feet
Datum is mean Sea level

Edition of Oct. 1894.

G.K. Gilbert, Chief Geologist.
W J Mc Gee, Geologist in Charge.
Geology by N.H. Darton.
Surveyed in 1890.