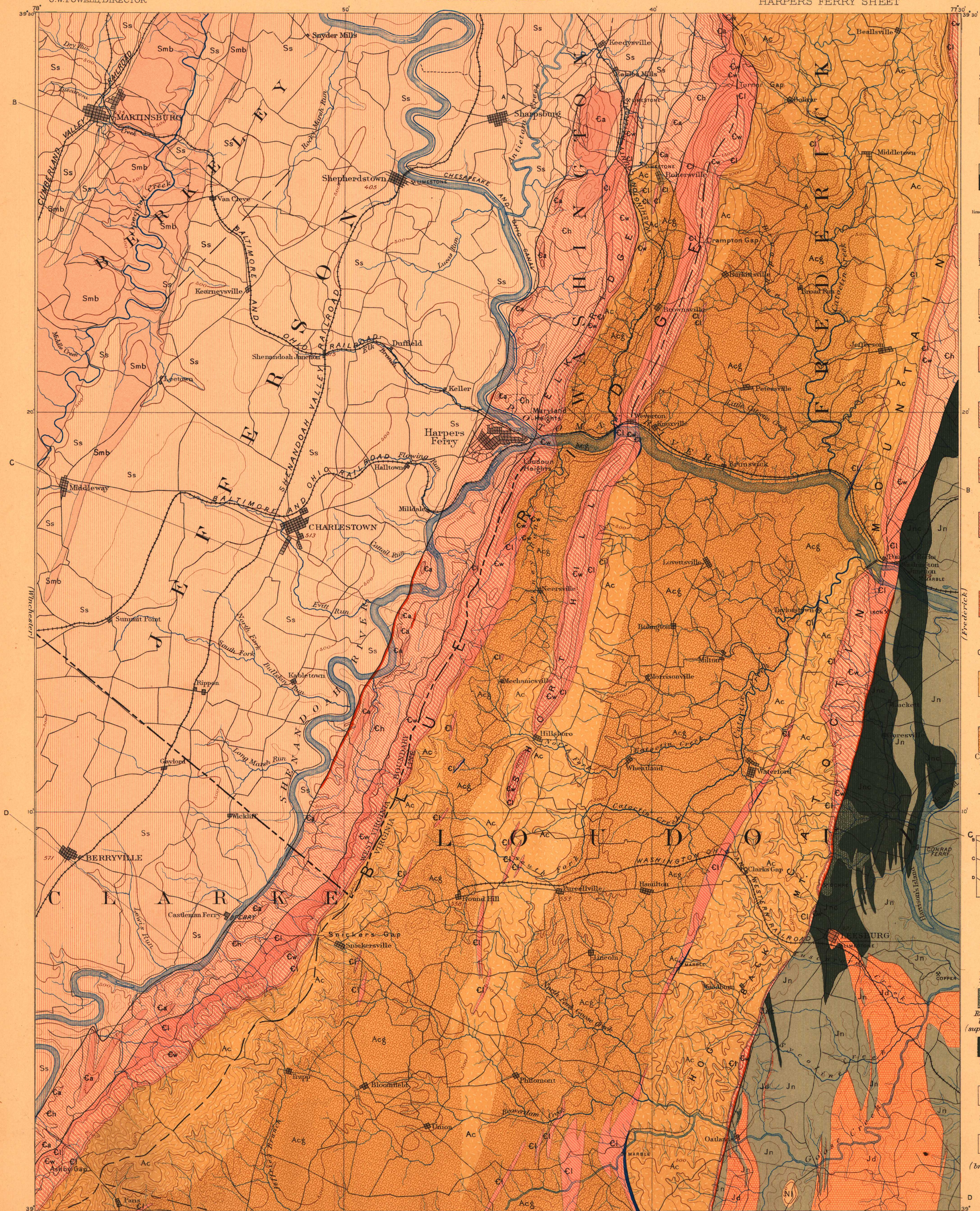


U.S. GEOLOGICAL SURVEY
J.W. POWELL, DIRECTOR

ECONOMIC GEOLOGY

VIRGINIA-WEST-VIRGINIA-MARYLAND
HARPERS FERRY SHEET



LEGEND

SEDIMENTARY

NI
Lafayette formation

Jn
Newark formation
including limestone and conglomerate

Smb
Martinsburg shale

Ss
Shenandoah limestone

Ca
Antietam sandstone

Ch
Harpers shale

Ew
Wewerton sandstone

Cl
Loudoun formation

Jd
Diabase

Ac
Catoctin schist

Acg
Catoctin schist and granite

Faults

Sections
A B C D

Quarries

Known productive formations

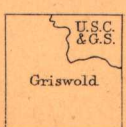
Red yellow and brown ochre (superficial deposit)

Variegated marble

White and blue marble

Iron ore (brown hematite)

Henry Gannett, Chief Geographer.
Gilbert Thompson, Geographer in charge.
Triangulation by the U.S. Coast & Geodetic Survey.
Topography by the U.S. Coast & Geodetic Survey & W.T. Griswold.
Surveyed in 1884.



Scale 125,000
Contour Interval 100 feet
Edition of July 1893.

G.K. Gilbert, Chief Geologist.
Bailey Willis, Geologist in charge.
Geology by Arthur Keith.
Surveyed in 1890 & 1891.