U.S. GEOLOGICAL SURVEY
CHARLES D. WALCOTT, DIRECTOR

STRUCTURE-SECTION SHEET

WEST VIRGINIA
RALEIGH QUADRANGLE

(Charleston) (Kanawha Falls) (Nicholas)
(Oceana) (Hinton)
(Pocahontas)
(Pisgah) (Dublin)

81°30' 20' 10' 81°00'
38°00' 50' 40' 37°30'

LEGEND

SEDIMENTARY ROCKS

SHEET SYMBOL	SECTION SYMBOL	
Cch	Cch	Charleston sandstone *(coarse sandstone or conglomerate with several thick beds of coal.)*
Ck	Ck	Kanawha formation *(sandy and argillaceous shale and soft sandstone with numerous coal beds of workable thickness.)*
Cs	Cs	Sewell formation *(sandy and argillaceous shale and sandstone containing three lentils of coarse sandstone or conglomerate and the Sewell coal bed.)*
Csn		Nuttall sandstone lentil *(coarse sandstone or conglomerate.)*
Csh		Harvey conglomerate lentil *(coarse conglomerate)*
Csg		Guyandot sandstone lentil *(coarse sandstone or conglomerate)*
Cr	Cr	Raleigh sandstone *(coarse sandstone or conglomerate, massive along New River but thinner-bedded elsewhere.)*
Cq	Cq	Quinnimont shale *(argillaceous and sandy shale with Quinnimont coal at the base and Beckley coal at the top of the formation.)*
Cc		Clark formation *(shale and sandstone)*
Cph		Pocahontas formation *(shale and sandstone with Pocahontas coal at the top of the formation.)*
Ct	Ct	Thurmond formation *(shale and sandstone.)*
Cbl	Cbl	Bluestone formation *(red and green shales and green sandstone)*
Cpr	Cpr	Princeton conglomerate *(coarse conglomerate)*
Chn	Chn	Hinton formation *(red and green shales with beds of sandstone and impure limestone)*

XIII and XIV (Rogers) — Lentils in Sewell formation (not differentiated on the section)
XII (Rogers)
XI (Rogers)
CARBONIFEROUS

Known productive formations

Ck-Cs-Cq-Cc *(Kanawha, Sewell, Quinnimont, and Clark formations contain important coal seams)*

Cch-Ct *(Charleston sandstone and Thurmond formation contain coal seams)*

Csn-Csh-Csg Cr-Cph *(Nuttall, Harvey, and Guyandot lentils, Raleigh sandstone, and Pocahontas formation are associated with coal seams)*

Coal

Henry Gannett, Chief Topographer.
H. M. Wilson, Chief Geographer in charge.
Triangulation by U.S. Coast and Geodetic Survey.
Topography by Hersey Munroe.
Surveyed in 1894-95.

Scale 1/125000
1 ½ 0 1 2 3 4 5 Miles
1 ½ 0 1 2 3 4 5 Kilometers

Edition of Aug. 1901.

Geology by Marius R. Campbell.
Assisted by Walter C. Mendenhall.
Surveyed in 1894, 95, and 99.