

COLUMNAR SECTION

GENERALIZED SECTION FOR THE TAZEWELL SHEET.
SCALE: 1000 FEET = 1 INCH.

PERIOD.	FORMATION NAME.	SYMBOL.	COLUMNAR SECTION.	THICKNESS IN FEET.	CHARACTER OF ROCKS.	CHARACTER OF TOPOGRAPHY AND SOIL.	
CARBONIFEROUS	Tellowa formation.	Ct		500	Interbedded sandstone and shale with one large and several small coal seams.	Steep slopes and narrow valleys. Poor soil.	
	Sequoyah formation.	Csq		450	Heavy sandstone. Sandstone and shale with a few seams of coal of moderate thickness.		
	Dotson sandstone.	Cdt		180	Coarse sandstone with sandy shale at the base.	Cliffs on exposed points.	
	Bearwallow conglomerate.	Cbr		60	Coarse conglomerate or heavy sandstone.		
	Dismal formation. (Dismal conglomerate-lentil.)	Cd (Cdc)		490 (0-120)	Sandstone and shale with several important coal seams. Coarse conglomerate near the center of the formation in the western portion of the area.	Steep slopes and narrow valleys. Cliffs where conglomerate occurs.	
	Raleigh sandstone.	Cr		100	Massive sandstone, sometimes conglomeratic.	Prominent cliffs in the center of the area.	
	Welch formation.	Cwl		700	Sandstone and shale with many seams of workable coal.	Steep slopes. Poor soil.	
	Pocahontas formation.	Cph		360	Pocahontas seam of coal at the top. Sandstone and shale with thin seams of coal.		
	Bluestone formation.	Cbl		700-800	Red and green shale and sandstone with impure limestone; very irregular in their stratigraphic distribution.	Irregular slopes, depending upon the character of the rocks. Soil good where calcareous beds prevail.	
	Princeton conglomerate.	Cpr		20-40	Coarse sandstone.	Ledges along ridge summits.	
	Hinton formation.	Chn		1150-1250	Variegated shale, red and green sandstone, and impure limestone; prevailing color red.	Irregular slopes, depending upon the character of the rocks. Soil good where calcareous beds prevail.	
	Bluefield shale.	Cbf		1150-1250	Heavy sandstone.		Sharp ridges.
					Argillaceous shale, grading downward into calcareous shale and impure limestone.	Undulating valley lands. Good soil, formed by the decay of the limestone and calcareous shale.	
	Greenbrier limestone.	Cgr		900-1000	Blue limestone, thin-bedded toward the top, becoming heavier and cherty toward the base.	Coves and gentle slopes. Soil good in places; the most noted localities are Horsepen and Crockett coves.	
Price sandstone.	Cpc		0-200	Sandstone and shale.	Steep slopes.		
DEVONIAN	Kimberling shale.	Dk		2000?-3000	Sandy shale and thin sandstone.	Steep ridges.	
					Green shale, grading into the formation below.	Gentle slopes.	
					Black carbonaceous shale.	Valleys. Soil poor.	
	Romney shale.	Dr		300-500	Black carbonaceous shale.	Valleys. Soil poor.	
	Giles formation.	SDg		100-200	Calcareous sandstone at the top, cherty limestone below, and shaly limestone at the base.	Gentle, southern slopes of Clinch Mountain.	
SILURIAN	Rockwood formation.	Sr		300-400	Heavy sandstone at the top. Sandy shale and ferruginous sandstone.	Steep, southern slopes of Clinch Mountain.	
	Clinch sandstone.	ScI		200-250	Coarse white sandstone.	Mountainous ridges.	
	Bays sandstone.	Sb		300-420	Red sandstone. Red sandy shale.	Very steep slopes.	
	Sevier shale.	Ssv		1200-1400	Yellow sandy shale.	Steep slopes. Generally good soil, but slopes too steep to be farmed well.	
					Calcareous shale with beds of impure limestone.	Gentle slopes.	
	Moccasin limestone.	Smc		0-400	Red earthy limestone.	Gentle slopes. Good soil.	
	Chickamauga limestone.	Sc		900-1000	Blue flaggy limestone. Heavy blue limestone containing black chert near the base.	Valleys. Best farming lands in the area.	
	CAMBRIAN	Knox dolomite.	€Sk		2400	Red earthy limestone sometimes conglomeratic.	Chert ridges. Good soil where not cherty.
						Gray magnesian limestone with cherty horizons; the upper portion carries barite along Kent Ridge.	
		Nolichucky shale.	€n		0-175	Blue calcareous shale.	Northern slopes of chert ridges.
Honaker limestone.		€hk		900-1000	Dark siliceous limestone.	Rolling valley lands. Good soil.	
Russell formation.		€rl		600+	Variegated shale with beds of sandstone and impure limestone.	Sharp hills.	