

COLUMNAR SECTIONS

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

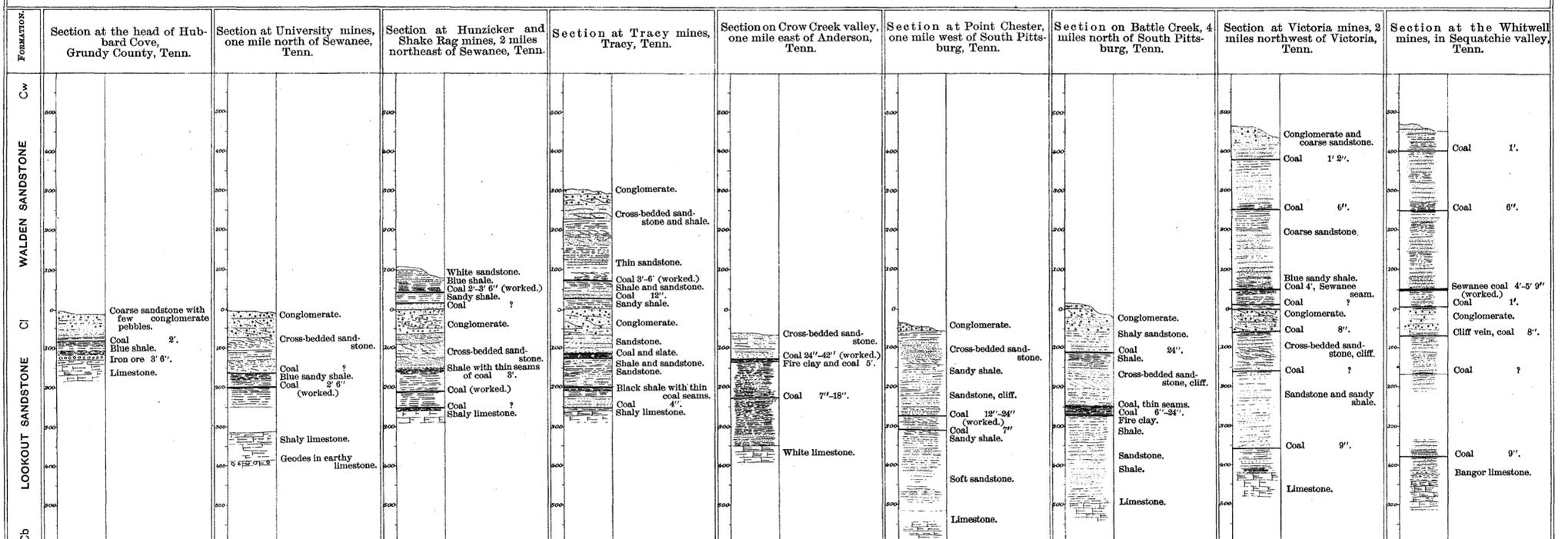
PERIOD	FORMATION NAME	FORMATION SYMBOL	COLUMNAR SECTION	THICKNESS IN FEET	CHARACTER OF ROCKS	CHARACTER OF TOPOGRAPHY AND SOILS
CARBONIFEROUS	Walden sandstone.	Cw		300-500	Conglomerate. Coarse sandstone and sandy shale with beds of coal and fire clay.	Plateau and mesas, bounded by cliffs and steep talus slopes.
	Lookout sandstone.	Cl		120-510	Conglomerate. Sandstone and shale with beds of coal, fire clay, and iron ore.	Gray, yellow, or red, sandy loam.
	Bangor limestone.	Cb		800-900	Shaly limestone, containing nodules of chert geodes. Massive, blue, crinoidal limestone, some beds oolitic. Arenaceous limestone.	Steep plateau slopes and coves. Level plain west of Cumberland plateau. Black or red clay soil.
DEVONIAN	Fort Payne chert.	Cp		60-80	Cherty limestone and heavy beds of chert.	Steep ridges in Sequatchie valley. "Barrens" west of Cumberland plateau, sandy and cherty soil.
	Chattanooga black shale.	Dc		12-25	Carbonaceous shale.	
	Rockwood formation.	Sr		200-350	Greenish clay shale with beds of fossil iron ore. Calcareous shale.	
SILURIAN	Chickamauga limestone.	Sc		1100-1300	Blue, flaggy limestone with some mottled, earthy and shaly beds.	Level valleys; shallow residual deposits of red or blue clay. Scanty blue clay soil where the limestone is nearly horizontal, and deeper red clay where the beds are steeply inclined.
	Knox dolomite.	Sk		3000 +	Magnesian limestone; white, gray, or light blue; generally granular and massively bedded; containing nodules and layers of chert.	Low ridges and irregular rounded hills; deep residual deposits of red clay and chert. Red clay soil with a few fragments of chert, grading into white or gray soil, composed almost entirely of chert.

NAMES OF FORMATIONS.

	Names and symbols used in this sheet.	Stafford; Geology of Tennessee, 1869.	Smith; Geology of the valley region adjacent to the Cahaba coal field, Alabama, 1890.	Smith; Outline of the Geology of Alabama, 1878.
Carboniferous	Cw Walden sandstone.	Coal measures.	Coal measures.	Upper coal measures.
	Cl Lookout sandstone.			Lower coal measures.
	Cb Bangor limestone.			Millstone grit; conglom.
	Cp Fort Payne chert.			
Devonian	Dc Chattanooga black shale.	Black shale.	Black shale.	Genesee or black shale.
	Sr Rockwood formation.	Dyestone group: White Oak mountain sandst.	Red mountain or Clinton.	Clinton or Dyestone.
Silurian	Sc Chickamauga limestone.	Trenton, Lebanon or Maclurea limestone.	Trenton or Pelham limestone.	Trenton, Chazy or Maclurea.
	Sk Knox dolomite.	Knox dolomite.	Knox dolomite.	Quebec or Knox dolomite.

VERTICAL SECTIONS; SHOWING THE POSITION AND THICKNESS OF COAL BEDS.

SCALE 250 FEET = 1 INCH.
VERTICAL DISTANCES ARE MEASURED FROM THE TOP OF THE LOOKOUT CONGLOMERATE.



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