

COLUMNAR SECTION

GENERALIZED SECTION FOR THE PIKEVILLE SHEET.
SCALE: 500 FEET = 1 INCH.

PERIOD.	FORMATION NAME.	SYMBOL.	COLUMNAR SECTION.	THICKNESS IN FEET.	CHARACTER OF ROCKS.	CHARACTER OF TOPOGRAPHY AND SOILS.
CARBONIFEROUS.	Walden sandstone.	Cw		400-650	Coarse sandstone and sandy shale with beds of coal and fire-clay.	Broad level plateaus intersected by narrow rocky gorges. Gray, yellow, or red sandy loam.
	Lookout sandstone.	Cl		90-650	Conglomerate. Sandstone and shale with beds of coal and fire-clay.	Cliffs and steep upper slopes of plateau escarpments.
	Bangor limestone.	Cb		800-850	Shaly limestone. Blue, crinoidal limestone with a few lenses of coarse sandstone.	Steep lower slopes of plateau escarpments. Black or red clay-soil.
	Fort Payne chert.	Cp		150-200	Cherty limestone and heavy beds of chert.	Ridges or knobs at the base of plateau escarpments.
DEVONIAN.	Chattanooga black shale.	Dc		15	Carbonaceous shale.	Ridges with clay-soil.
	Rockwood shale.	Sr		165-360	Calcareous shale with thin beds of blue limestone and red fossil iron ore.	
SILURIAN.	Chickamauga limestone.	Sc		950-1200	Blue, flaggy limestone.	Level valleys. Shallow, residual deposits of red or blue clay; scanty, blue clay-soil where the rocks are nearly horizontal, and deeper, red clay where the beds are steeply inclined.
CAMBRIAN.	Knox dolomite.	Sk		1000+	Magnesian limestone, white, gray, or light-blue, generally granular and massively bedded, containing nodules and beds of chert.	Low ridges and irregular, rounded hills. Deep, residual deposits of red clay and chert; red clay with a few fragments of chert, grading into white or gray soil composed almost entirely of chert.

VERTICAL SECTIONS; SHOWING THE POSITION AND THICKNESS OF COAL BEDS.
SCALE: 250 FEET = 1 INCH.
VERTICAL DISTANCES ARE MEASURED FROM THE TOP OF LOOKOUT CONGLOMERATE.

FORMATION.	Section at the Richland mines, Dayton, Tenn.	Section west of Pikeville; in part from drill records.	Section on Basses Creek 6 miles south of Crossville; from drill records.	Section on Laurel and Clifty Creeks near Erasmus.	Section at the Bon Air mines.
WALDEN SANDSTONE (Cw)					
LOOKOUT SANDSTONE (Cl)					