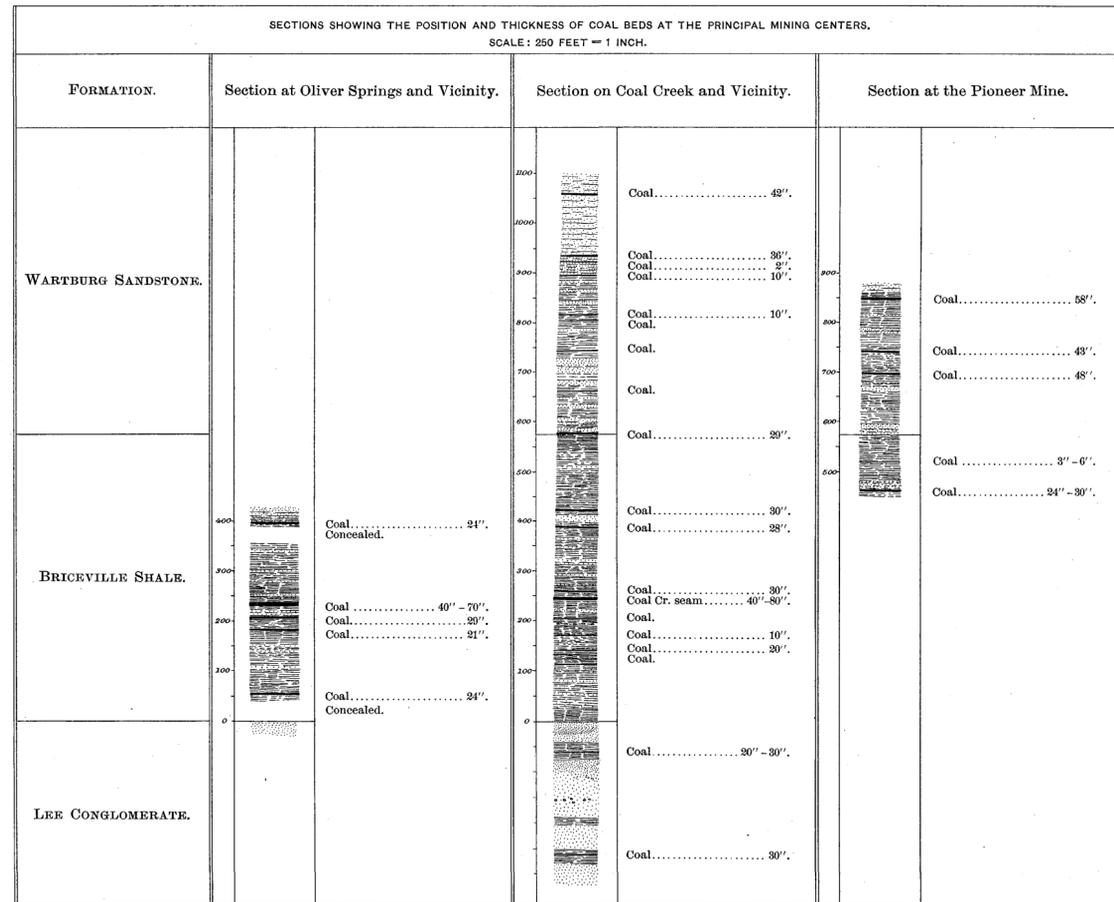


COLUMNAR SECTIONS

GENERALIZED SECTION FOR THE BRICEVILLE SHEET. SCALE: 1000 FEET = 1 INCH.						
PERIOD.	FORMATION NAME.	SYMBOL.	COLUMNAR SECTION.	THICKNESS IN FEET.	CHARACTER OF ROCKS.	CHARACTER OF TOPOGRAPHY AND SOILS.
CARBONIFEROUS	Anderson sandstone.	Can		1000+	Sandstone, thin and massive, interbedded with sandy and argillaceous shales and thin coal beds.	Flat-topped ridges and mountains with lines of cliffs and ledges. Thin, sandy and clayey soil.
	Scott shale.	Csc		500-650	Argillaceous and sandy shales with some beds of sandstone and thin coal seams.	Rounded summits and steep slopes of Anderson sandstone mountains.
	Wartburg sandstone.	Cwb		500-600	Interbedded sandstone, sandy shale, argillaceous shale, and coal beds.	Flat-topped spurs, benches, and small ridges, with many low cliffs. Sandy, sterile soil.
	Briceville shale.	Cbv		250-650	Black bluish-gray and gray, argillaceous shale with small beds of sandy shale, sandstone, and thick coal beds.	Low valleys with small hills and spurs. Thin clay-soil with sandy wash.
	Lee conglomerate.	Cle		500-1500	Massive sandstone with beds of cross-bedded sandstone and conglomerate, a few thin shale beds, and thin coal seams.	Sharp, rugged ridges and mountains with many cliffs and ledges. Thin, sandy and rocky soil with much sandstone waste.
	Pennington shale.	Cpn		160-400	Calcareous shale, sandstone, and limestone.	Small hollows. Sandy clay-soil.
	Newman limestone.	Cn		650-750	Massive blue limestone and a few shale beds. Massive beds of chert and cherty blue limestone.	Rolling ground, small ridges, and a few cliffs on the slopes of Lee conglomerate mountains. Cherty, red clay-soil.
DEV.	Chattanooga shale.	Dc		50-80	Black, carbonaceous shale.	Narrow depressions.
	Rockwood formation.	Sr		400-500	Red and brown, calcareous and sandy shales with local beds of white sandstone and fossiliferous red hematite.	Valleys and sharp, even-topped ridges. Thin, sandy soil.
SILURIAN	Bays limestone.	Sb		160-200	Red, argillaceous and sandy limestone.	Valleys and low slopes. Thin, sandy clay-soil with many outcrops.
	Chickamauga limestone.	Sc		1600-2000	Blue and gray limestone, argillaceous limestone, flaggy limestone, and calcareous shale.	Smooth, open valleys. Red and yellow clay-soil.
	Knox dolomite.	Sk		2800-3500	Blue and gray, massive limestone with a few nodules of black chert.	Low, rounded hills. Red, clayey soil and chert fragments.
CAMBRIAN	Conasauga shale.	Cc		650-800 (250)	Yellow, red, and brown, calcareous shale with thin beds of limestone, those at the base assuming the importance of a separate formation in the extreme southeast.	Valleys, and slopes of Knox dolomite ridges. Thin, yellow clay-soil.
	Rome sandstone-lentil.	Cr _s		500+	Red, yellow, and brown, sandy shale with thick beds of sandstone.	Sharp ridges with notches and gaps. Thin, sandy soil with ledges and fragments of sandstone.



NAMES OF FORMATIONS.					
PERIOD.	NAMES AND SYMBOLS USED IN THIS FOLIO.		ARTHUR KEITH: LOUDON FOLIO, U. S. GEOLOGICAL SURVEY, 1896.	C. W. HAYES: KINGSTON FOLIO, U. S. GEOLOGICAL SURVEY, 1894.	SAFFORD: GEOLOGY OF TENNESSEE, 1899.
CARBONIFEROUS	Anderson sandstone.	Can			
	Scott shale.	Csc			
	Wartburg sandstone.	Cwb			
	Briceville shale.	Cbv	Briceville shale.	Walden sandstone.	Coal measures.
	Lee conglomerate.	Cle	Lee conglomerate.	Lookout sandstone.	
	Pennington shale.	Cpn	Pennington shale.	Bangor limestone.	Mountain limestone.
CAMBRIAN	Conasauga shale.	Cc	Conasauga shale.	Conasauga shale.	Knox shale.
	Chattanooga shale.	Dc	Chattanooga shale.	Chattanooga black shale.	Black shale.
	Rockwood formation.	Sr	Rockwood formation.	Rockwood formation.	Dyestone group.
	Bays limestone.	Sb	Bays sandstone.	Chickamauga limestone.	Trenton and Nashville group.
	Chickamauga limestone.	Sc	Chickamauga limestone.	Chickamauga limestone.	Trenton and Nashville group.
	Knox dolomite.	Sk	Knox dolomite.	Knox dolomite.	Knox dolomite.
	Conasauga shale.	Cc	Nolichucky shale.	Nolichucky shale.	Knox sandstone.
	Maryville limestone.		Maryville limestone.		
	Rome formation.	Cr	Rome formation.	Rome formation.	
Rome sandstone-lentil.	Cr _s	Rome sandstone.	Rome sandstone.		

ARTHUR KEITH,
Geologist.