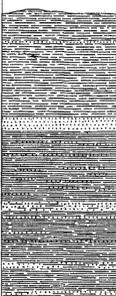
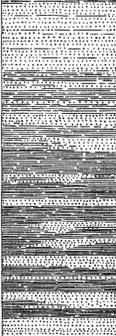


COLUMNAR SECTIONS

GENERALIZED SECTION FOR NORTHERN HALF OF THE TAHLEQUAH QUADRANGLE.								
SCALE: 1 INCH = 200 FEET.								
SYSTEM	SERIES	FORMATION NAME.	SYMBOL.	COLUMNAR SECTION.	THICKNESS IN FEET.	CHARACTER OF ROCKS.	CHARACTER OF TOPOGRAPHY AND SOILS.	
CARBONIFEROUS	PENNSYLVANIAN	(Atkins shale member.)	(Cak)		(175+)	Chiefly shale, with thin sandstone.	Gently undulating plain. Clay soil.	
		Winslow formation.	Cwl		900±	Gray and brown sandstone, usually thin bedded, shaly sandstone, and bluish shale. Quartz conglomerate locally in sandstone at the base.	Local table-lands and hilly country. Light sandy loam on table-lands; stony soil on hill slopes.	
		UNCONFORMITY						
		Morrow formation.	Cmr		80-210	Blue to white limestone and light-blue to greenish clay shales with occasional thin sandstone.	Generally steep hill slopes and cliffs. Soil sandy with some clay.	
		(Hale sandstone lentil.)	(Chl)			Calcareous brown sandstone grading into limestone.	Valleys and lower slopes of hills. Stony, sandy loam.	
			PROBABLE UNCONFORMITY					
	Pitkin limestone.	Cp		3-80	Blue and brown limestone, locally siliceous and ferruginous.	Generally steep hill slopes and bluffs. Contributes lime to soils lower on slopes.		
	(Wellington sandstone member.)	(Cwt)		(0-100+)	Brown and usually thin-bedded sandstone, represented in part by bluish shale with clay-iron concretions.	Moderately steep slopes of hills. Sandy soil.		
	Fayetteville formation.	Cfv		20-160	Dark-blue to black fissile clay shale, locally containing argillaceous limestone segregations, and light-blue limestone in lower part.	Usually narrow and low-graded slopes. Thin, poor soil.		
			UNCONFORMITY					
	MISSISSIPPIAN	Boone formation.	Cbn		100-375	Chert and cherty limestone. Light-blue crinoidal limestone present locally at the base.	Table-lands and steep hill and valley slopes. Good limestone soil, but often cherty.	
			PROBABLE UNCONFORMITY					
	DEV.	Chattanooga formation. (Sylamore sandstone member.)	Dc (Ds)		0-40	Black fissile shale, with massive brown sandstone and phosphatic conglomerate at the base.	Bases of bluffs and valley bottoms. Thin, poor soil.	
			UNCONFORMITY					
			Tyner formation.	Ot		60-100	Brown sandstone and thin siliceous limestone and chert above; brown, thin-bedded and flaggy sandstone and greenish shale below.	Steep slopes of valleys and bottom lands. Stony, poor soil.
ORDOVICIAN		Burgen sandstone.	Ob		5-100	Massive brown sandstone.	Lower slopes of bluffs and bottoms of valleys. Sandy soil.	

GENERALIZED SECTION OF THE LOWER ROCKS FOR SOUTH-CENTRAL PART OF TAHLEQUAH QUADRANGLE.							
SCALE: 1 INCH = 200 FEET.							
SYSTEM	SERIES	FORMATION NAME.	SYMBOL.	COLUMNAR SECTION.	THICKNESS IN FEET.	CHARACTER OF ROCKS.	CHARACTER OF TOPOGRAPHY AND SOILS.
CARBONIFEROUS	MISSISSIPPIAN	Boone formation.	Cbn		100-375	Chert and cherty limestone. Light-blue crinoidal limestone present locally at the base.	Table-lands and steep hills and valley slopes. Good limestone soil, but often cherty.
				UNCONFORMITY			
DEV.		Chattanooga formation. (Sylamore sandstone member.)	Dc (Ds)		0-40	Black fissile shale, with massive brown sandstone and phosphatic conglomerate at the base.	Bases of bluffs and valley bottoms. Thin, poor soil.
SILURIAN		St. Clair marble.	Ssc		100+	Pinkish-white, coarsely crystalline marble.	Lower slopes and valley bottoms. Soil thin and stony.

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