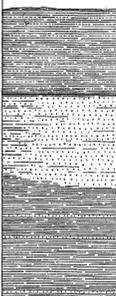


# COLUMNAR SECTION

GENERALIZED SECTION OF THE MUSCOGEE QUADRANGLE.								
SCALE: 1 INCH = 200 FEET.								
SYSTEM	SERIES	FORMATION NAME.	SYMBOL.	COLUMNAR SECTION.	THICKNESS IN FEET.	CHARACTER OF ROCKS.	CHARACTER OF TOPOGRAPHY.	
C A R B O N I F E R O U S	PENNSYLVANIAN	Boggy formation.	Cb		500+	Sandy gray shale with 30-inch coal bed in basal part. Gray to yellowish-brown sandstone, massive and moderately hard. Soft gray and black shale with some sandy shale.	Gently rolling prairie upland with bluffs and escarpments.	
		Winslow formation.	Cwl		800-1000	Shale and shaly sandstone with thin coal beds locally. Brownish sandstone beds interstratified with bluish clay shale. Chiefly clay shale with a thin coal bed in upper part. Heavy sandstone beds. Alternating beds of shale and sandstone, usually thin bedded.	Rolling prairie land. Local table-lands and hilly country. Rolling prairie land.	
		UNCONFORMITY						
		Morrow formation.	Cmr		100-120	Blue to white limestone, light-blue to greenish clay shale, and local thin sandstone beds, with blue to black shale and thin limestone at the top where not removed by erosion.	Generally steep hill slopes, bluffs, and cliffs.	
		UNCONFORMITY						
MISSISSIPPIAN		Pitkin limestone.	Cp		60±	Blue and brown limestone, locally siliceous and ferruginous.	Valleys and lower slopes of hills.	
		Fayetteville formation.	Cf		20-60	Black to dark-blue, fissile, clay shale with thin limestone lentils.	Valleys and bases of hills.	
		Boone formation.	Cbn		200+	Cherty limestone and beds of chert.	Rolling plains of small extent and cherty hills.	

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