

LATE PALEOZOIC STRATIGRAPHIC RECORD IN SOUTHWEST VIRGINIA

Data from Englund, Kenneth J., 1979,
Geological Survey Professional Paper 1110-A, p. c1-c21

Age	Formations		Environments		Tectonic Interpretation	
	SW	NE	Seaward	Landward		
PENNSYLVANIAN	UNCONFORMITY Erosion down to Bluestone Formation					
		HARLAN 200+m	Alluvial plains; deeply incised river channels			
		WISE 580m	Upper delta plain; widespread important coals. Two widespread marine incursions; abundant brachiopods and bivalves			
		GLADEVILLE 15.5m	Offshore sand bar. Massive strongly cross bedded quartz sandstone.			
	LEE	NORTON 165m 600m	Back barrier, lagoon. Lower delta plain. Thin local coals.	Upper delta plain channels; thick widespread coals.		
		NEW RIVER 425m 520m	Thick, widespread barrier bars; qtz. congl. and sandstone	Coastal and near coastal deltaic; coal bearing		
	UNCONFORMITY Uplift and extensive erosion of northwest edge of basin					
	LEE	POCAHONTAS 0m 299m	Transgressing sea - marine muds			
			Alluvial distributary channels			
			Barrier Bars (LEE)	Alternating deltalobes and coal swamps		
	BLUESTONE 250m	Transgressing sea - marine muds				
		Progradation of terrestrial sediments. Tidal-supertidal; tidal creek channels.				
MISSISSIPPIAN		PRINCETON 0m 18m	High energy prograding shoreline with longshore and tidal currents. Very fine grained rippled sandstone			
			Lithic conglomerate			
		HINTON 50m 395m	Marine limestone	Sand Bars		Lagoons, swamps local coals
		BLUEFIELD 590m 365m	Brackish and fresh water swamps. Pro-grading nearshore mud and sand. Brief marine limestones.			
		GREENBRIER 480m 900m	CARBONATES - subtidal to supertidal; abundant fragmented marine fossils.			
	UNCONFORMITY Slight uplift and erosion					
	MCCRADY 30m 45m	Extensive marine transgression. Near shore tidal deposits?				
	PRICE/POCONO (Grainger Fm) 290m 500m	Marine shales (Grainger Fm.)	Progradation of terrestrial environments. Coastal swamps, coals; rivers			
Dev	CHATTANOOGA (Big Stone Gap Mbr.) 3m 80m	Shallow water marine				