

Depth	Stratigraphic Units					Rock Color	Lithology			Remarks
	Members	Formations	Subgroup	Stage	System		Rock Column	Sedimentary Structures	Fossils	
575	Lexington Coal	Labette Shale								0.9 black siltstone thinly laminated gradational upper and 2.1 black coal to carbonaceous shale vitreous luster structureless to slightly laminated more horizontally-cleated (mm-scale) with some vertical cleats 0.3 dark gray carbonaceous
580	Englevale Sandstone									
585										1.0 dark gray silty shale slightly thinly to thickly 2.6 medium gray - green silty clay subangular-blocky structures gradational upper and lower contacts carbonaceous root structures calcareous
590	Higginsville Limestone	Fort Scott Limestone								7.2 light gray to medium gray-brown limestone (mudstone to packstone peloidal matrix) thinly to thickly laminated fenestral fabrics and brecciation higher gradational upper and lower contacts brachiopods crinoid and brachiopod hash phylloid algae fusulinids burrowed and bioturbated root voids at top some calcite lined stylolitic and pyritic
595										0.8 medium gray brown siltstone structureless to 12.4 light gray to medium gray-brown limestone (mudstone to packstone peloidal matrix) structureless to thickly to thickly laminated brecciated and fenestral fabrics at top and middle gradational upper contact sharp lower contact layers of crinoid and bivalve hash fusulinids burrowed (skolithos and underlying shale) and bioturbated root traces in middle stylolitic and pyritic
600										
605										
610										12.4 dark gray to black shale to silty shale to siltstone micaceous structureless to thin and very thinly laminated sharp upper and lower contacts pyritic at base some siderite nodules calcareous
615										
620	Little Osage Shale									4.1 black silty shale to shale carbonaceous at bottom with 1-2 cm coal seams thinly to thickly laminated sharp upper and lower contacts crinoid and brachiopod hash fusulinids horizontal burrows (spiral Anconichnus ?) minor plant fragments pyritic and calcareous
625	Summit coal (missing)									4.8 medium gray silty shale to shale slightly laminated to angular blocky to structureless very slickensided with clay cutans lower gradational upper and lower contacts carbonaceous root traces plant fragments calcareous Black Jack Creek Limestone
630	Blackjack Creek Limestone									2.7 medium gray-green limestone (mudstone) brecciated at top slightly thickly laminated gradational upper and lower contacts calcite lined root traces and root void structures no body 6.8 dark gray silty shale thinly laminated gradational upper and lower contacts minor brachiopod hash horizontally burrowed (?) or mottled appearance calcareous
635										
640	Excella Shale									0.8 medium gray brown limestone (mudstone) to 0.8 black silty shale to carbonaceous siltstone numerous

Primary Rock Lithology

- Clay, Claystone
- Shale
- Silt, Siltstone
- Sand, Sandstone
- Anthracite Coal
- Limestone

Secondary Rock Lithology

- Clayey, Argillaceous, clay
- Shaly, shale
- Silty, Silt
- Carbonaceous, Carbonized
- Anthracitic
- Pyritic, pyrite
- Sideritic, siderite
- fossiliferous
- Calcareous
- Phosphate, Phosphatic

Fossils

- Fresh Water (Fresh Water)
- Brackish Water (Brackish Water)
- Marine (Marine)
- (F) Few
- (M) Many
- (B) Broken
- Macrofossils
- Brachiopods
- Crinoids
- Plants
- Roots
- Algae
- Burrows
- Larger Foraminifera, or fusulin

Sedimentary Structure Symbols

Depositional Structures

- Ripples
- Planar, Horizontal ripples
- Lamination
- Parallel Laminations
- Stratification
- Horizontal bedding

Deformational Structures

- Nodules
- Nodules - Carbonates

Erosional Structures

- Stylolites