

Depth	Stratigraphic Units				Rock Color	Lithology Rock Column	Sedimentary Structures	Fossils	Remarks
	Members	Formations	Subgroup	System					
520									5.4 dark gray to medium gray siltstone very thinly laminated unknown upper contact sharp lower contact abundant plant debris at base siderite cement.
525	Upper Mulberry coal Walter Johnson Sandstone	Howata Shale							0.6 black coal vitreous 4.0 light greenish gray to medium gray sandstone (very fine - fine) to siltstone to silty shale (moderate to poor sorted) structureless cutanic lower sharp upper contact gradational lower contact plant fragments at top carbonaceous and calcite lined root traces siderite cement calcite nodules lower. Altamont
530	Worland Limestone	Altamont Limestone							3.5 light gray limestone (mudstone to wackestone pelloid matrix) structureless cutanic brecciated at top gradational upper and lower contacts abundant brachiopod hash also crinoid hash fusulinids and foraminifera stylitic
535	Lake Neosho Shale Amoret Limestone								1.7 dark gray silty shale thinly laminated limestone casts at top slightly cutanic gradational upper and lower 5.4 light gray to medium gray limestone (mudstone to wackestone to packstone micritic matrix structureless to thickly and thinly laminated brecciated at top coated grains in packstone facies gradational upper contact sharp lower contact brachiopod (whole and hash) crinoid hash fusulinids and foraminifera stylitic throughout
540	Mulberry coal (absent)	Bandera Shale							4.5 dark gray to medium gray silty shale structureless to platy to subangular blocky and clay cutans slightly slickensided lower gradational upper and lower contacts minor carbonaceous root traces v. carbonaceous at top slightly calcareous at base.
545	Laberdie Limestone	Pawnee Limestone							8.0 light gray to light brown limestone (mudstone to wackestone pelloid matrix) structureless to thin to medium bedded brecciated and fenestral fabrics at top gradational lower contact foraminifera fusulinids bivalve (whole and hash) crinoid fragments very stylitic (horsetail).
550									
555									8.0 light gray to medium gray to light brown sandstone (very fine U to Medium L) structureless to unidirectional ripple laminated to heterolithic (flaser to wavy bedded) mud drapes common sandstone intraclasts at top gradational upper contact gradational lower contact burrowed (minor Teichichnus) and bioturbated siderite bands and cement calcareous at top.
560									
565	Mine Creek Shale								11.3 dark gray to black silty shale micaceous structureless to thickly and thinly laminated sharp upper and lower contacts brachiopod near top highly fossiliferous lag at base (brachiopods and other hash) siderite nodule and cement at top pyritic and calcareous at base Myrick Station Limestone
570									
575	Myrick Station Limestone								3.6 dark gray to dark brown limestone (mudstone / wackestone to packstone pelloid matrix) thickly laminated to thinly bedded to structureless (15 deg to 20 deg inclination) sharp upper contact gradational lower contact highly fossiliferous (whole brachiopods brachiopod)
	Anna Shale								0.9 black siltstone thinly laminated gradational upper and

Primary Rock Lithology

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

Secondary Rock Lithology

- Clayey, Argillaceous, clay
- Silty, Silt
- Sandy, sand
- Carbonaceous, Carbonized
- Sideritic, siderite
- fossiliferous
- Calcareous
- Phosphate, Phosphatic

Fossils

- Fresh Water (F)
- Brackish Water (B)
- Marine (M)
- Macrofossils (Mf)
- Brachiopods (Br)
- Crinoids (Cr)
- Plants (Pl)
- Roots (R)
- Algae (Al)
- Foraminifera (Fm)
- Larger Foraminifera, or fusulin (LFF)

Sedimentary Structure Symbols

Depositional Structures

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

Deformational Structures

- Load casts
- Nodules
- Nodules - Carbonates

Erosional Structures

- Deflation Lag
- Stylolites