

Section measured in road cut and quarry face, 8th and Jenkins Streets, Marysville, Kansas T: 2S R: 7E S: 28
 Latitude: 39.84935 Longitude: -96.64772 Elevation (GL): 1201.0 Depth: 47.0

Depth	Stratigraphic Units						Rock Color	Lithology Rock Column	Sedimentary Structures	Fossils	Remarks
	Members	Formations	Subgroup	Group	Stage	Series					
0	Fort Riley Limestone	Barneston Limestone									19. Limestone soft thick-bedded tan-gray weathers platy light-gray 3.0
5											18. Limestone soft to moderately hard thick-bedded gray-orange weathers red-brown and gray-brown contains cherty zones Edmondia sp. Pleurophorus sp. Nucula sp. Bellerophon sp. Hyalina sp. and microfossils
10											17. Limestone thin-bedded tan-gray weathers platy gray pitted to cavernous contains quartz geodes 1.9
15											16. Limestone soft thick-bedded tan weathers
15	Oketo Shale										15. Limestone hard massive tan weathers tan-gray fretted appearance contains siliceous bands and quartz geodes 4.7
20	Florence Limestone										14. Limestone hard massive tan weathers tan-gray 1.9
25											13. Shale silty calcareous moderately hard to hard platy tan weathers thin-bedded tan-gray Polypora sp. Rhombopora sp. few Stenopora sp. few Heekella striatocostata Chonetes granulifer Dictyoelostus americanus Derbyia multistriata D. crassa D. cymbula Composita ovata C. subtilita crinoid columnals
30											12. Limestone massive tan-gray contains quartz geodes and bands of chert in middle part weathers tan Derbyia crassa and fragments of other brachiopods echinoid spines crinoid
35											11. Shale silty calcareous blocky olive-drab to gray-brown weathers slabby tan to gray Derbyia sp. Ambocoelia sp. Pleurophorus sp. Hyalina sp. Allorisma terminale crinoid
40											10. Limestone very cherty hard massive tan weathers blocky tan-gray Heekella
45											9. Limestone noncherty soft slabby tan-gray weathers platy tan Heekella striatocostata
											8. Limestone cherty soft massive tan with gray streaks weathers tan-gray Dictyoelostus sp. Derbyia sp. Ambocoelia sp. crinoid columnals echinoid spines and plates 3.6
											7. Limestone noncherty soft massive light-gray weathers thin-bedded tan-gray Rhombopora sp. Polypora sp. Derbyia sp.
											6. Limestone thick-bedded tan-gray weathers tan contains persistent chert band at top Rhombopora sp. Polypora sp. Derbyia sp. Dictyoelostus sp. crinoid columnals 2.7
											5. Limestone massive cream weathers tan-gray contains irregular chert bands fossils same as for lower zones but not as numerous 5.8
											4. Shale silty calcareous hard
											2. Shale silty calcareous hard thick-bedded tan weathers
											1. Limestone massive cream weathers tan-gray contains chert band near middle Heekella striatocostata Derbyia sp. Rhombopora sp. few

Primary Rock Lithology

- Shale
- Limestone
- Limestone (platy)
- Limestone (massive)

Secondary Rock Lithology

- Silty, Silt
- Cherty, chert
- Calcareous

Fossils

- Fresh Water
- Brackish Water
- Marine
- (F) Few
- (M) Many
- (B) Broken
- Macrofossils
- Brachiopods
- Bryozoans
- Crinoids
- Echinoids
- Gastropods
- Pelecypods
- Microfossils

Sedimentary Structure Symbols

Depositional Structures

- Stratification

Deformational Structures

- Horizontal bedding
- Cavities

Matfield Shale