

Permian Section
Depth: 95.0

Depth	Stratigraphic Units						Rock Color	Lithology Rock Column	Sedimentary Structures	Fossils	Remarks
	Members	Formations	Subgroup	Group	Series	System					
0		Funston Limestone									<p>3 The upper limestone about 2 to 4 feet thick is dense and platy to massive.</p> <p>5.5 4.5 to 7 feet of buff gray and red shale. Locally the shale is calcareous and contains nodular partly fossiliferous limestone.</p>
10		Blue Rapids Shale									<p>2 The lower limestone about 1.5 to 2.5 feet thick is bluish</p> <p>23 The average thickness of the Blue Rapids shale is about 23 feet. Thin locally cherty limestone is fairly characteristic especially of the upper part. Colors of the shale are gray greenish and red. Locally specimens of the large brachiopod <i>Juresania</i> are common in the upper part and sparse algal remains occur in the middle and lower parts. Little if any ground water is obtained from the formation.</p>
20											
30		Crouse Limestone									<p>2.5 2 to 3 feet of yellowish thin-bedded platy limestone</p> <p>3.5 3 to 4 feet of bluish-gray dense massive locally cherty limestone</p>
40		Easy Creek Shale									<p>3 and about 3 feet of irregular thin-bedded to nodular limestone which characteristically contains</p> <p>10 The average thickness of the Easy Creek shale is about 10 feet. The formation is characterized by its distinct brown and red colors and the presence of small white algal masses. This formation is of little or no importance as a source of ground water.</p>
50											
		Middleburg Limestone									<p>6 The Middleburg limestone is about 6 feet thick and consists of gray to greenish thin-bedded limestone that weathers whitish and is interbedded with gray to greenish shale. The dense tough limestone commonly contains</p>
60		Hooser Shale									<p>4.7 feet of buff to yellow shale</p> <p>0.2 foot of greenish-gray</p> <p>4.1 feet of varicolored algal shale which commonly is poorly exposed.</p>
70		Eiss Limestone									<p>2 The upper 2 feet is blue-gray massive limestone</p> <p>2 It is underlain by about 2 feet of red and green shale.</p> <p>6 The rock in the lower part (about 7 feet) is buff and gray thin-bedded limestone</p>
80											<p>1 the lowermost part of</p> <p>5 about 5 feet of gray shale</p>
90		Stearns Shale									<p>6 overlying about 6 feet of red and brown shale. The more brightly colored shale contains small bodies that are believed to be fossil algae.</p> <p>2.5 which is underlain by about 2.5 feet of bluish to dark-gray shale and nodular</p>

Primary Rock Lithology

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

Secondary Rock Lithology

- Shaly, shale
- Cherty, chert
- fossiliferous
- Calcareous

Fossils

- Fresh Water (Fresh Water)
- Brackish Water (Brackish Water)
- Marine (Marine)
- (♁) Few
- (♁) Many
- (♁) Broken
- ♁ - Macrofossils
- ♁ - Brachiopods
- ♁ - Mollusks
- ♁ - Pelecypods
- ♁ - Algae

Sedimentary Structure Symbols

Depositional Structures

- Stratification
- Horizontal bedding

Deformational Structures

- Nodules
- Nodules - Carbonates