The Donnellson Quadrangle lies within the Southern Iowa Drift Plain landscape region, which is dominated by loose unconsolidated drifts in the uplands and fine to coarse grained alluvial deposits in stream valleys. The thickness of Quaternary materials overlying the bedrock surface varies widely across the quadrangle ranging from 0 to 20 ft (0 – 60 ft), reaching a maximum thickness of 30 m (100 ft) in the southern part of the mapping area. An accompanying geologic map of the bedrock geology of the Donnellson Quadrangle has been published simultaneously with this report.

The bedrock surface of the Donnellson Quadrangle is dominated by Mississippian units overlain by Pennsylvanian units occurring as minor erosional outliers. The majority of the bedrock exposures occur along Sugar Creek and its tributaries in the eastern part of the mapping area. Geologic reconnaissance of fine to coarse grained alluvial deposits in stream valleys. The thickness of Quaternary materials overlying the bedrock surface varies widely across the quadrangle ranging from 0 to 20 ft (0 – 60 ft), reaching a maximum thickness of 30 m (100 ft) in the southern part of the mapping area. An accompanying geologic map of the bedrock geology of the Donnellson Quadrangle has been published simultaneously with this report.

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