

GEOLOGIC MAP  
of the  
MOOREVILLE QUADRANGLE  
Lee and Itawamba  
Counties, Mississippi

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Cross-Section by Darrel Schmitz, RPG,  
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DESCRIPTION OF MAP UNITS

ALLUVIUM

Floodplain deposits of clay, silt, and sand. Generally gray, yellowish-orange, orange, and tan. Approximately 25 feet thick along larger streams, thinning up tributaries.

TERRACE ALLUVIUM

Abandoned floodplain deposits of clay, silt, and sand generally yellowish-orange, orange, and tan. Approximately 25 feet thick adjacent to larger streams and younger terrace deposits. Thinner or non-existent tributaries. Qt1 - youngest and lowest in elevation of Terrace alluvium deposits. Qt2 - second youngest in age and elevation of Terrace alluvium deposits. Qt3 - third youngest in age and elevation of Terrace alluvium deposits. Qt4 - fourth youngest in age and elevation of Terrace alluvium deposits. Qt5 - fifth youngest in age and elevation of Terrace alluvium deposits. The older in age and higher in elevation Terrace alluvium deposits become increasingly eroded and discontinuous.

COFFEE SAND

Sand, buff, yellow, red-brown, light to dark gray, fine to medium-grained, glauconitic, with zones of silty sand and clay and occasional thin beds of concretionary sandstone layers. Fossiliferous in certain parts. The base of the Coffee Formation is questionably disconformable, almost impossible to determine, and may be older than the underlying Tombigbee Member sands. The only evidence are phosphatic molds and general fossils in the basal Coffee sand common to the Tombigbee. Thickness ranges up to approximately 130 feet.

MOOREVILLE CHALK

Massive, shelled, sandy, dull, and calcareous clay. Medium to light gray, and bluish-gray, weathers to tan. Locally sandy and contains subordinate amounts of glauconite. Fossiliferous in many locations. Conformable contact with overlying Coffee Sand. Thickness ranges up to approximately 110 feet.

EUTAW FORMATION

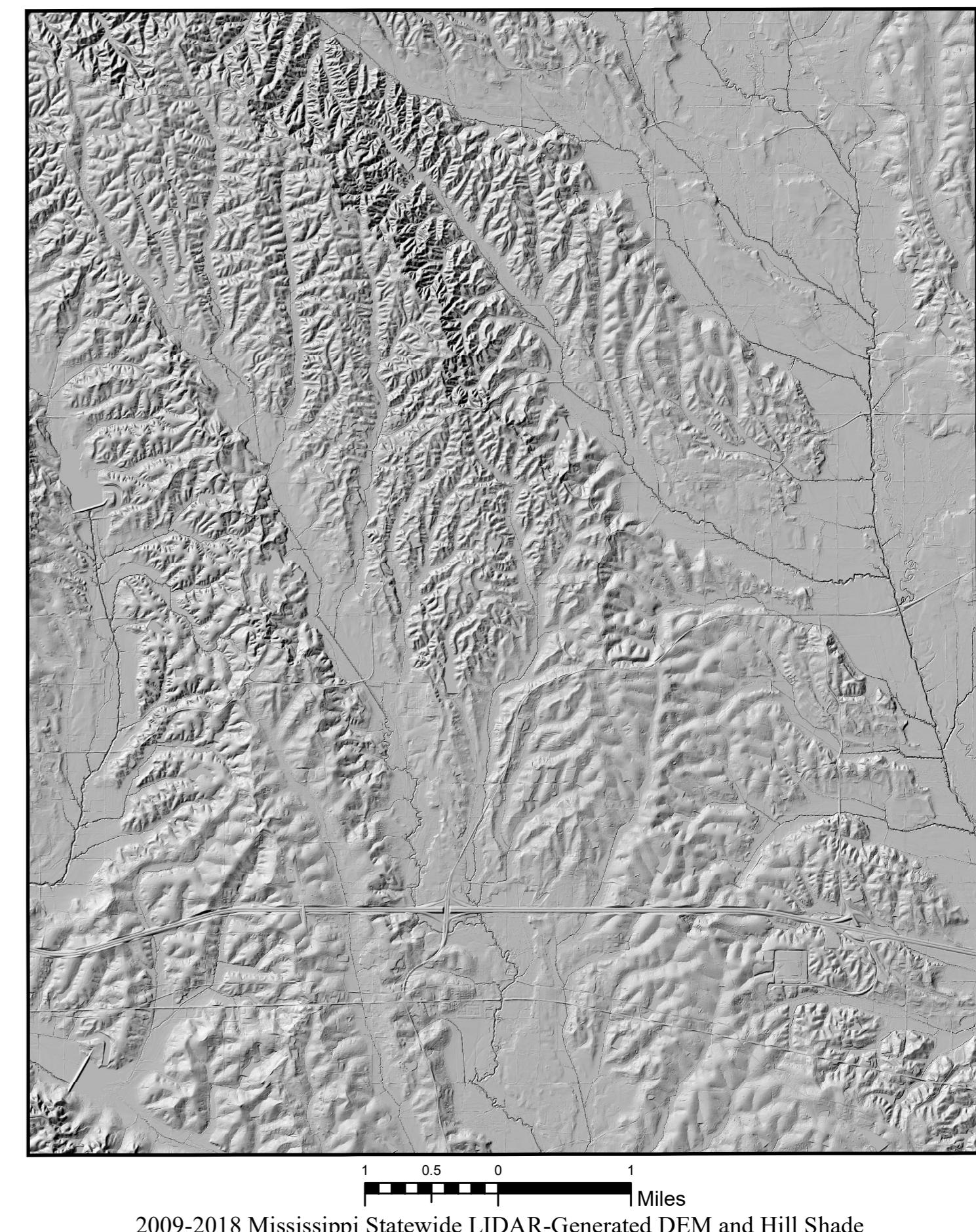
Ket Tombigbee Member, Sand, Olive drab to light-to reddish-brown, light to dark gray, greenish-gray, fine-grained, massive, glauconitic, in part argillaceous, micaceous, somewhat calcareous, and fossiliferous. The base is conformable with the underlying portion of the Eutaw Formation and may be older. Ket Tombigbee Member, Sand, olive gray, greenish gray, glauconitic, fine to coarse grained, cross-bedded, with laminae of dark gray flaky clay, and strings of small chert gravel, locally carbonaceous and locally fossiliferous. Thickness ranges up to about 70 feet.

The Eutaw Formation disconformably overlies the McShan Formation. Only exists in the subsurface where the Tombigbee Member is included.

G0005

Drill Hole Locality and Identifier

✖ Surface Mine



2009-2018 Mississippi Statewide LIDAR-Generated DEM and Hill Shade

Structural Cross-Section of the Mooreville 7.5-Minute Geologic Quadrangle

