



MISSISSIPPI DEPARTMENT OF
ENVIRONMENTAL QUALITY
OFFICE OF GEOLOGY
OPEN-FILE REPORT 316

GEOLOGIC MAP
of the
GUNTON QUADRANGLE

Lee and Union Counties,
Mississippi

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

ALLUVIUM
Qal

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
Qt1
Qt2
Qt3
Qt4
Qt5

Abandoned floodplain deposits of clay, silt, and sand generally yellowish-orange, orange, and tan. Approximately 25 feet thick in elevation of Terrace alluvium deposits. 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.

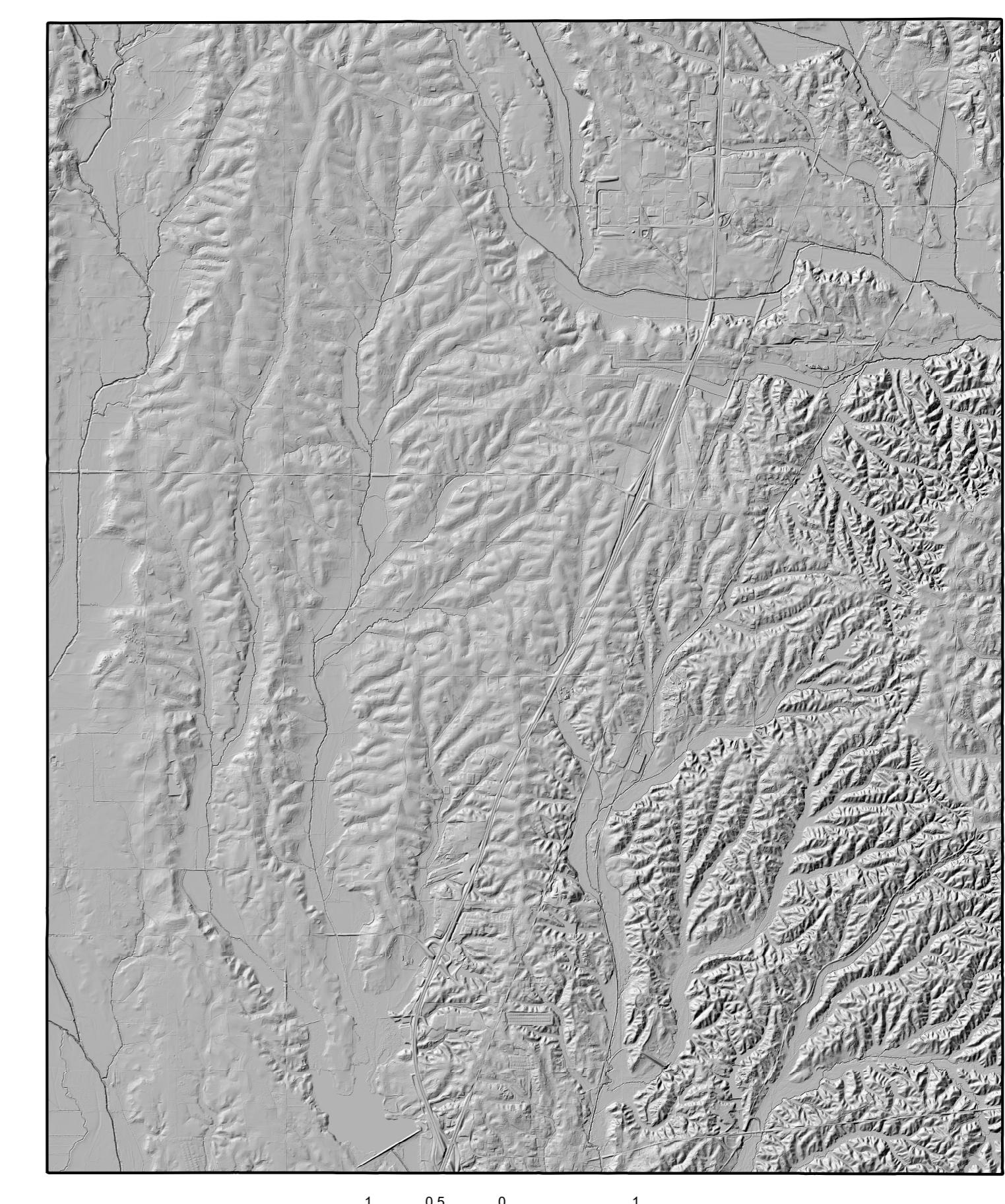
DEMOPOLIS CHALK
Kd
Kc

Massive-bedded chalk and marly chalk. Medium to light gray and bluish-gray, weathers to tan. Contains subordinate amounts of pyrite, glauconite, and mica. Fossiliferous in many locations. Thickness ranges up to 125 feet.

COFFEE SAND
T. 7 S.
T. 8 S.
Kd
Kc

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 some locations. Lateral facies changes are usually disconformable, almost impossible to differentiate on the basis of lithology from the underlying Tombigbee Member bands. The only evidence are phosphatic molds and general fossils in the basal Coffee sand. Thickness ranges up to 240 feet.

A0002 Drill Hole Locality and Identifier
X Surface Mine



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

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

