



GEOLOGIC MAP  
of the  
SHERMAN QUADRANGLE

Lee, Pontotoc,  
and Union 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 stream Alluvium or younger terrace deposits, thinning or non-existent up 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.

RIPLEY FORMATION

Clay in lower portion conformably transitioning from underlying Demopolis Chalk. Sand, Chalk and limestone above the transitional clay. Transitional clay is laminated to thin bedded; dark greenish gray, medium gray and reddish tan where highly weathered; locally sandy; and fossiliferous. Sand, chalk and limestone are interbedded lenses of sand, chalky sand, silty chalk or chalky limestone. Sands are tan to red where weathered; fine grained; micaceous; calcareous; and fossiliferous. Chalks are gray to tan often silty and sandy; and fossiliferous. Limestones are light gray to nearly white where weathered; often sandy; and fossiliferous. Thickness ranges up to approximately 165 feet.

DEMOPOLIS CHALK

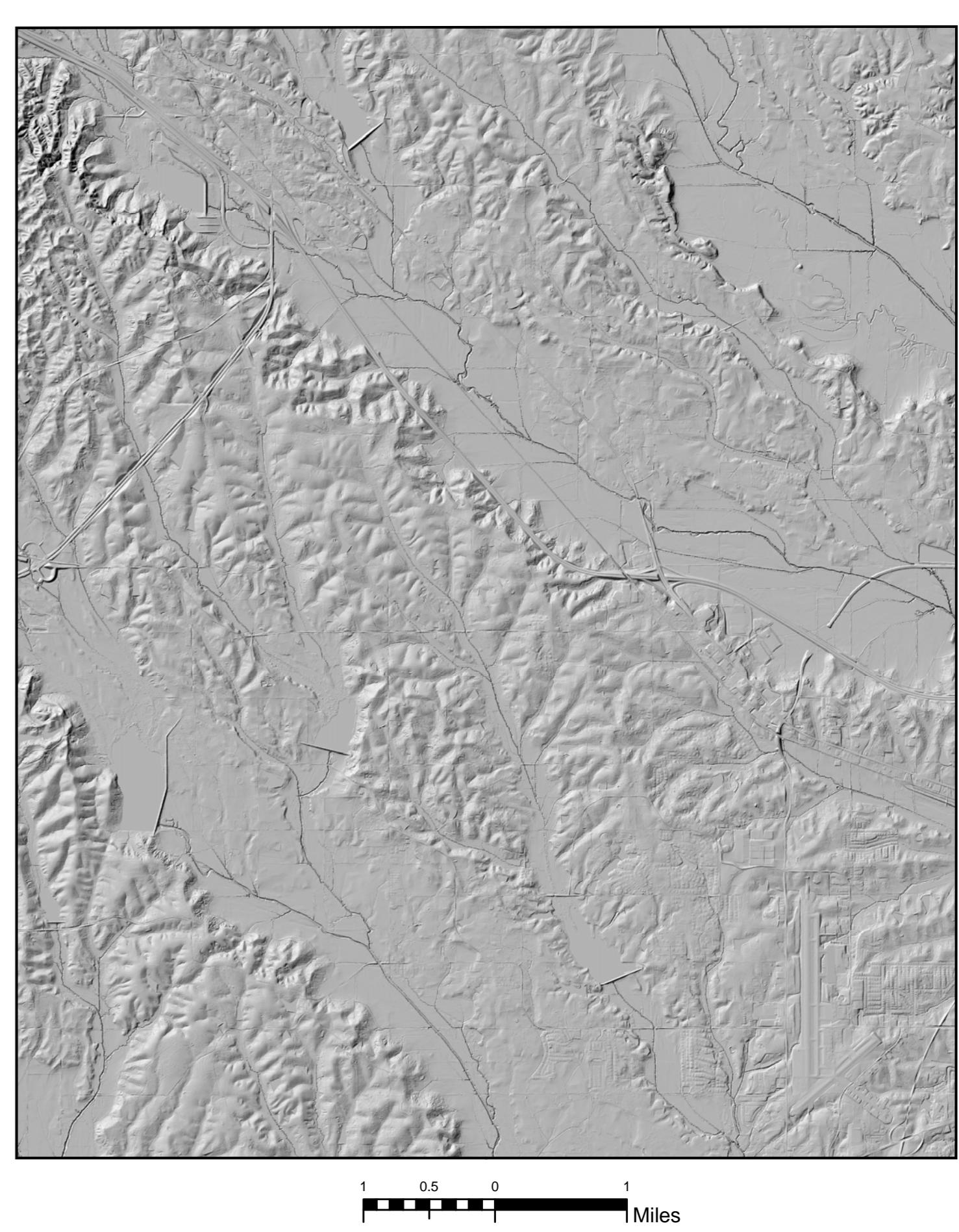
Massive-bedded chalk and marly chalk. Medium to light gray and bluish-gray, weathers to tan. Contains subordinate amounts of pyrite, glauconite, and mica. Fossiliferous in many locations. Thickness ranges up to approximately 350 feet.

G0014

Drill Hole Locality and Identifier

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Surface Mine Identifier



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

