

Quadrangle map locations. Mapped portions are shaded.

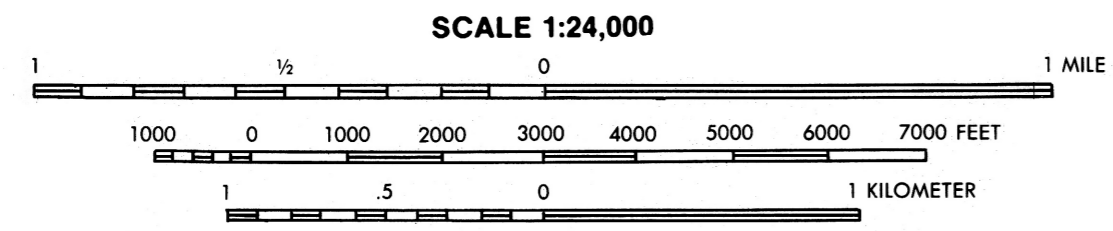


QUADRANGLE LOCATION

MISSISSIPPI BUREAU OF GEOLOGY
 OPEN FILE REPORT 13

**GEOLOGIC MAP
 OF
 TISHOMINGO COUNTY
 PORTIONS OF THE FULTON NORTHEAST
 (MISSISSIPPI)
 AND RED BAY
 (ALABAMA-MISSISSIPPI)
 QUADRANGLES**

Geology by Robert K. Merrill
 1988



Base map prepared from the Fulton Northeast (Mississippi) Quadrangle, 1965, and the Red Bay (Alabama-Mississippi) Quadrangle, 1981, Tennessee Valley Authority- United States Geological Survey, 1927 North American datum.

DESCRIPTION OF MAP UNITS

QUATERNARY	Qal	ALLUVIUM Sand, medium- to brownish-gray, very fine- to very coarse-grained, subangular to subrounded quartz, silty, clayey; commonly contains organic matter, chert and quartzite pebbles common at base.	
	Qtl	LOW ELEVATION TERRACE DEPOSITS Sand, light-gray to dark reddish-brown, very fine- to very coarse-grained, subangular to subrounded quartz, silty, clayey; lower portions contain layers and lenses of flattened quartzite and quartz pebbles interspersed with rounded chert pebbles; iron staining common on pebbles. Distributed adjacent to present stream courses, at and above flood plain elevation.	
	Qth	HIGH ELEVATION TERRACE DEPOSITS Gravel, moderate reddish- to dark yellowish-brown, very well rounded chert and smooth, flattened quartzite pebbles; iron staining common on outer surfaces; beds and lenses of sand, silt, and clay occur frequently in upper portions. Irregular bedding, occasional cross-bedding; ironstone cementation common. Mainly occur at elevations above 600 feet. Erosional contact at base.	
CRETACEOUS	EUTAW GROUP	Ke	EUTAW FORMATION LOWER EUTAW Sand, medium- to olive-gray, fine- to medium-grained, subangular to subrounded quartz, glauconitic, micaceous, horizontal- and cross-bedded; commonly thinly interbedded and interlaminated with clay, medium-gray, locally carbonaceous; isolated occurrences of petrified wood in lower portions. Weathers to various shades of reddish-brown. Frequent occurrence of ferruginous cemented sand molds of <i>Callianassa</i> sp. burrows. Unconformity at base.
		Kmc	McSHAN FORMATION Sand, pale yellowish-brown to very light-gray, very fine- to fine-grained, well sorted, subangular quartz, glauconitic, micaceous, silty; thinly interbedded and interlaminated with silt, light-gray to grayish orange-pink, micaceous, clayey. Horizontal- and ripple-laminated; frequent zones of massive- to cross-bedded, fine- to coarse-grained sand; frequent chert pebble lenses and stringers. Weathers to various shades of reddish-brown to yellowish-gray; local occurrences of ferruginous cemented sand molds of <i>Callianassa</i> sp. burrows; common occurrence of petrified wood; occasional occurrence of carbonaceous clays, dark-gray, micaceous, containing carbonized wood fragments. Unconformity at base.
	TUSCALOOSA GROUP	Kt	TUSCALOOSA GROUP (UNDIFFERENTIATED) Gravel, chert white to dark-gray, very well rounded; frequent silt and clay matrix; sand, light- to moderate reddish-brown, very fine- to very coarse-grained, subrounded to angular quartz and chert grains, poorly sorted, with frequent gravel lenses and stringers; clay, white- to medium-gray with occasional occurrences of carbonaceous dark-gray clays; zones of multi-colored chert gravel; frequent well-cemented chert pebble conglomeratic zones. Laterally traceable silt and clay intervals occur most frequently in uppermost and lowermost intervals. Unconformity at base.
MISSISSIPPIAN	CHESTERIAN SERIES	Mh	HARTSELLE FORMATION Sandstone, light-gray to light brownish-gray, fine- to medium-grained, well cemented quartz arenite, thin- to massive-bedded; contains thin intervals of thinly bedded and laminated siltstone and shale, medium- to dark-gray; local ferruginous staining.