

**GEOLOGIC MAP  
OF THE  
BELMONT QUADRANGLE  
(MISSISSIPPI PORTION)**

MISSISSIPPI-ALABAMA

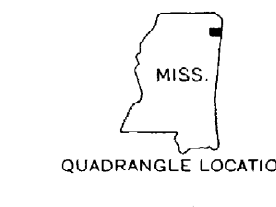
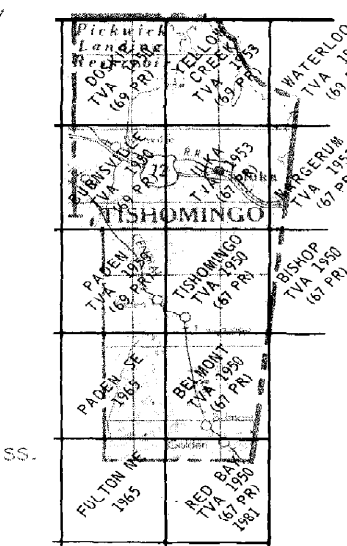
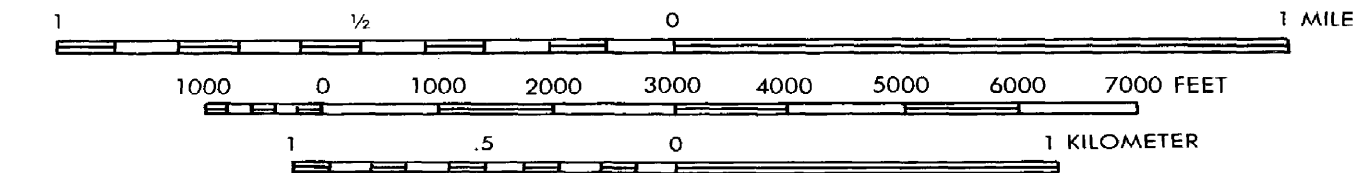
Geology by Robert K. Merrill

1988

Digitized by Jonathan R. Leard

2020

SCALE 1:24,000



**DESCRIPTION OF MAP UNITS**

- |               |            |  |
|---------------|------------|--|
| QUATERNARY    | <b>Qal</b> | <b>ALLUVIUM</b><br>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.  |
|               | <b>Qtl</b> | <b>LOW ELEVATION TERRACE DEPOSITS</b><br>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.   |
|               | <b>Qth</b> | <b>HIGH ELEVATION TERRACE DEPOSITS</b><br>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    | <b>Ke</b>  | <b>EUTAW FORMATION<br/>LOWER EUTAW</b><br>Sand, medium- to olive-gray, fine- to medium-grained, subangular to subrounded quartz, glauconitic, micaceous, horizontal- and cross-bedded; commonly thinly interbedded and interlamated with clay, medium-gray, locally carbonaceous; isolated occurrences of petrifified 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.   |
|               | <b>Kmc</b> | <b>McSHAN FORMATION</b><br>Sand, pale yellowish-brown to very light-gray, very fine- to fine-grained, well sorted, subangular quartz, glauconitic, micaceous, silty; thinly interbedded and interlamated 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 petrifified wood; occasional occurrence of carbonaceous clays, dark-gray, micaceous, containing carbonized wood fragments. Unconformity at base. |
| MISSISSIPPIAN | <b>Kt</b>  | <b>TUSCALOOSA GROUP (UNDIFFERENTIATED)</b><br>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; isolated occurrences of quartzite; frequent well-cemented chert pebble conglomeratic zones. Laterally traceable silt and clay intervals occur most frequently in uppermost and lowermost intervals. Unconformity at base.   |
|               | <b>Mh</b>  | <b>HARTSELLE FORMATION</b><br>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.  |
|               | <b>Mpm</b> | <b>PRIDE MOUNTAIN FORMATION</b><br>Shale, olive- to dark-gray, calcareous, sandy; limestone, light- to brownish-gray, thin-bedded grainstones, wackestones, and mudstones, fossiliferous, occasionally coarsely, sandy, silty; sandstone, very light- to brownish-gray, thin- to massive-bedded, fine- to medium-grained, sparingly fossiliferous. Unconformity at base.   |

Base map compiled from Belmont Quadrangle, Tennessee Valley Authority - United States Geological Survey, 1960, photorevised in 1967. 1927 North American datum.