

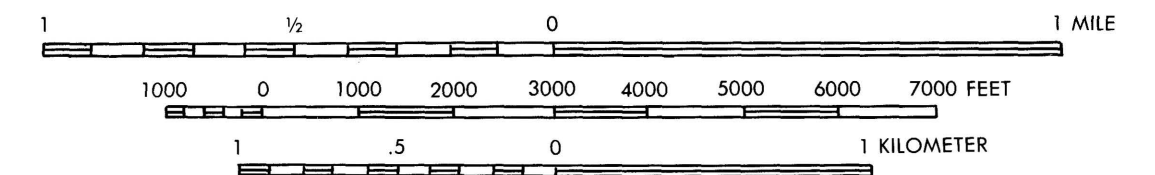
MISSISSIPPI BUREAU OF GEOLOGY
OPEN FILE REPORT 5

GEOLOGIC MAP
OF THE
BELMONT QUADRANGLE
(MISSISSIPPI PORTION)
MISSISSIPPI-ALABAMA

Geology by Robert K. Merrill

1988

SCALE 1:24,000



DESCRIPTION OF MAP UNITS

- 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.
- Qhl** **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.
- 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 *Callianassa* 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 *Callianassa* sp. burrows; common occurrence of petrified wood; occasional occurrence of carbonaceous clays, dark-gray, micaceous, containing carbonized wood fragments. Unconformity at base.
- 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; 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.
- 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.
- Mpm** **PRIDE MOUNTAIN FORMATION**
Shale, olive- to dark-gray, calcareous, sandy; limestone, light- to brownish-gray, thin-bedded grainstones, wackestones, and mudstones, fossiliferous, occasionally oolitic, sandy, silty; sandstone, very light- to brownish-gray, thin- to massive-bedded, fine- to medium-grained, sparingly fossiliferous. Unconformity at base.

QUATERNARY

CRETACEOUS

EUTAW GROUP

TUSCALOOSA GROUP

MISSISSIPPIAN

CHESTERIAN SERIES