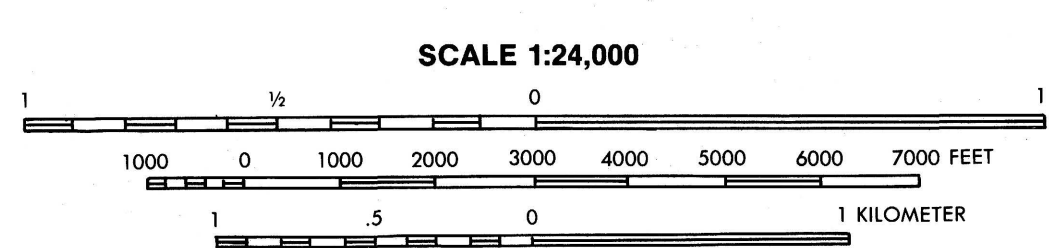


MISSISSIPPI BUREAU OF GEOLOGY
OPEN FILE REPORT 10

GEOLOGIC MAP
OF THE
BURNSVILLE QUADRANGLE
MISSISSIPPI

Geology by Robert K. Merrill

1988



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.
- SELMA GROUP**
- Kc** **COFFEE FORMATION**
Sand, light- to medium-gray, very fine- to medium-grained, subangular quartz, glauconitic, micaceous; frequently interbedded with silt, light- to medium-gray, clayey; thinly bedded with occasional intervals of irregular- to massive-bedded sand; occasional lenses and stringers of small chert gravel at base. Frequent thin ironstone beds; weathers to shades of reddish-brown. Unconformity at base.
- CRETACEOUS**
- EUTAW GROUP**
- Ket** **EUTAW FORMATION
TOMBIGBEE SAND MEMBER**
Sand, medium light- to olive-gray, very fine- to medium-grained, subangular to subrounded quartz, well sorted, massive-bedded, glauconitic, micaceous, silty, clayey; weathers to various shades of reddish-brown. Frequent occurrence of ferruginous cemented sand molds of *Callianassa* sp. burrows.
 - Ke** **LOWER EUTAW MEMBER**
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.

Base map prepared from the Burnsville Quadrangle (Mississippi), Tennessee Valley Authority-United States Geological Survey, 1950, photorevised 1969. 1927 North American datum.