2.2 MI. TO MISS. 4 (PADEN SE. 670 000 FEET



Quadrangle map locations. Mapped portions are shaded.



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

MISSISSIPPI BUREAU OF GEOLOGY

OPEN FILE REPORT 13

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



EUTAW FORMATION LOWER EUTAW

fine- to medium-grained, subangular to subrounded quartz ous, horizontal- and cross-bedded; commonly thinly interbedded and ated with clay, medium-gray, locally carbonaceous; isolated occurrences o petrified wood in lower portions. Weathers to various shades of reddish-brown. Frequent ccurrence of ferruginous cemented sand molds of Callianassa sp. burrows. Unconformity

McSHAN FORMATION

and, 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, lightgray 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.

TUSCALOOSA GROUP (UNDIFFERENTIATED)

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 multicolored chert gravel; frequent well-cemented chert pebble conglomeratic zones. Laterally traceable silt and clay intervals occur most frequently in uppermost and lowermost intervals.

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