

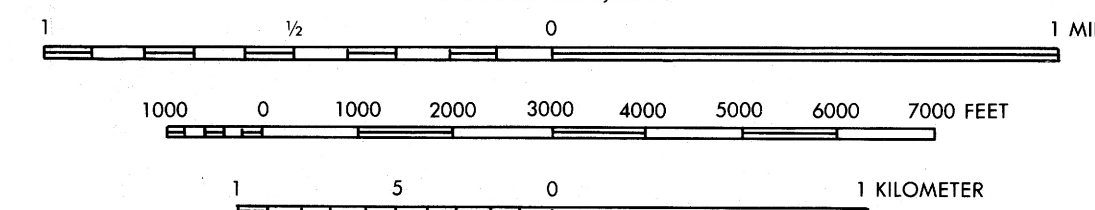
**MISSISSIPPI BUREAU OF GEOLOGY  
OPEN FILE REPORT 11**

**GEOLOGIC MAP  
OF THE  
PADEN QUADRANGLE  
(TISHOMINGO COUNTY PORTION)  
MISSISSIPPI**

**Geology by Robert K. Merrill**

## 1988

**SCALE 1:24,000**



### DESCRIPTION OF MAP UNITS

## ALLUVIUM

**Qal** 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.

### LOW ELEVATION TERRACE DEPOSITS

**Qtl** 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.

## COFFEE FORMATION

Kc	COFFEE FORMATION
	<p>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.</p>

**EUTAW FORMATION**  
**TOMBIGBEE SAND MEMBER**

**Ke** **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.

**LOWER EUTAW MEMBER**

**Ke** 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 *Callinassa* sp. burrows. Unconformity at base.

## McSHAN FORMATION

**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 intertaminated with silt, light-gray to grayish orange-pink, micaceous, clayey. Horizontal- and ripple-laminated; frequent zones of massive to columnar sandstone. Grains of grayish sand, frequent chert pebbles and stringers. Weathers to various shades of reddish-brown, locally yellowish-brown. Occurrences of ferruginous cemented sand molds of *Callianassa* sp. burrows; common occurrences of petrified wood; occasional occurrence of carbonaceous clays, dark-gray, micaceous, containing carbonized wood fragments. Uniformity at base.

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