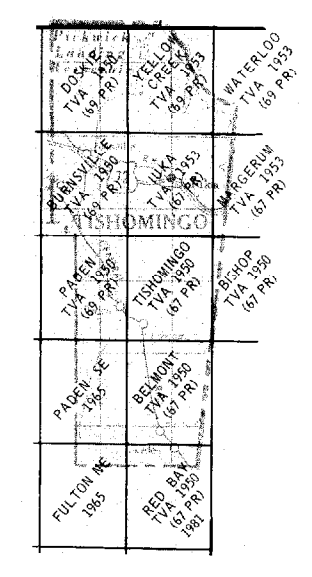


MISSISSIPPI BUREAU OF GEOLOGY  
 OPEN FILE REPORT 11

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

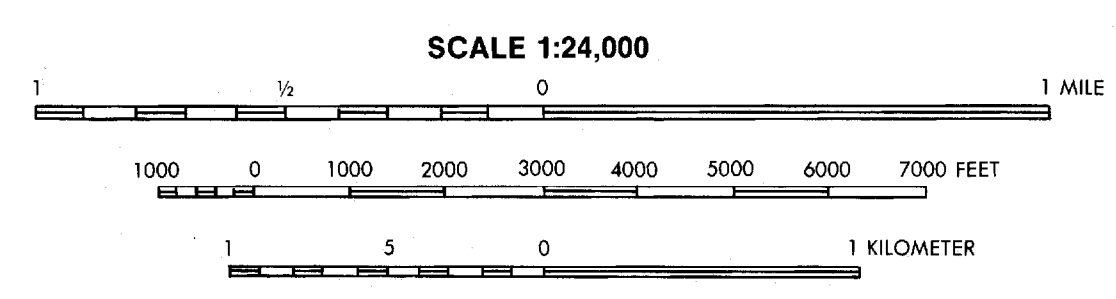
Geology by Robert K. Merrill  
 1988  
 Digitized by Bailee M. Ozbirn  
 2024



Quadrangle map locations.  
 Mapped portions are shaded.



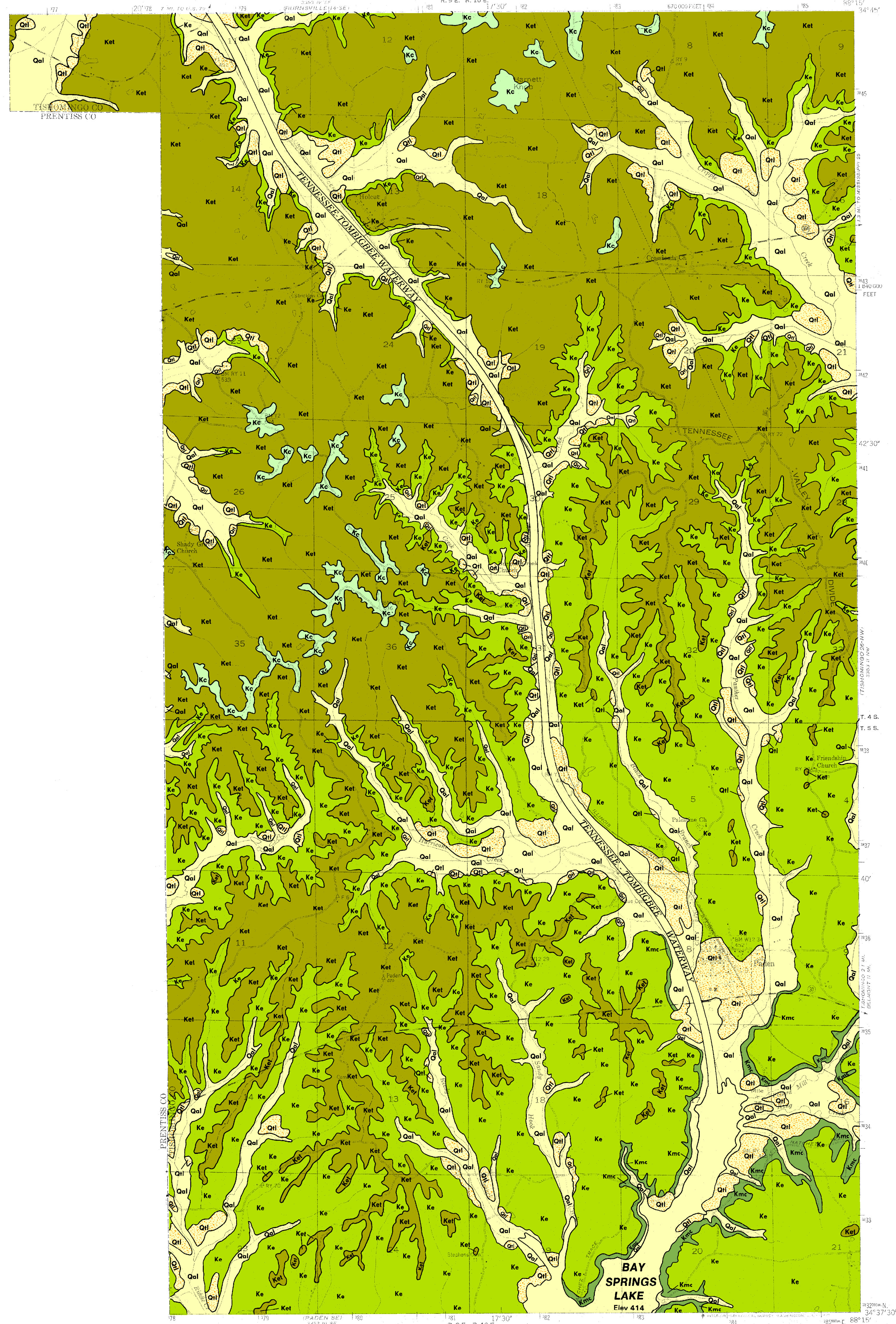
QUADRANGLE LOCATION



**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.   |
| SELMA GROUP | <b>Kc</b>  | <b>COFFEE FORMATION</b><br>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.  |
|             | <b>Ket</b> | <b>EUTAW FORMATION<br/>TOMBIGBEE SAND MEMBER</b><br>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 <i>Callianassa</i> sp. burrows.   |
|             | <b>Ke</b>  | <b>LOWER EUTAW MEMBER</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 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 <i>Callianassa</i> sp. burrows. Unconformity at base.  |
| CRETACEOUS  | <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 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 <i>Callianassa</i> sp. burrows; common occurrence of petrified wood; occasional occurrence of carbonaceous clays, dark-gray, micaceous, containing carbonized wood fragments. Unconformity at base. |

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



**BAY SPRINGS LAKE**  
 Elev 414