

MISSISSIPPI OFFICE OF GEOLOGY
OPEN-FILE REPORT 75

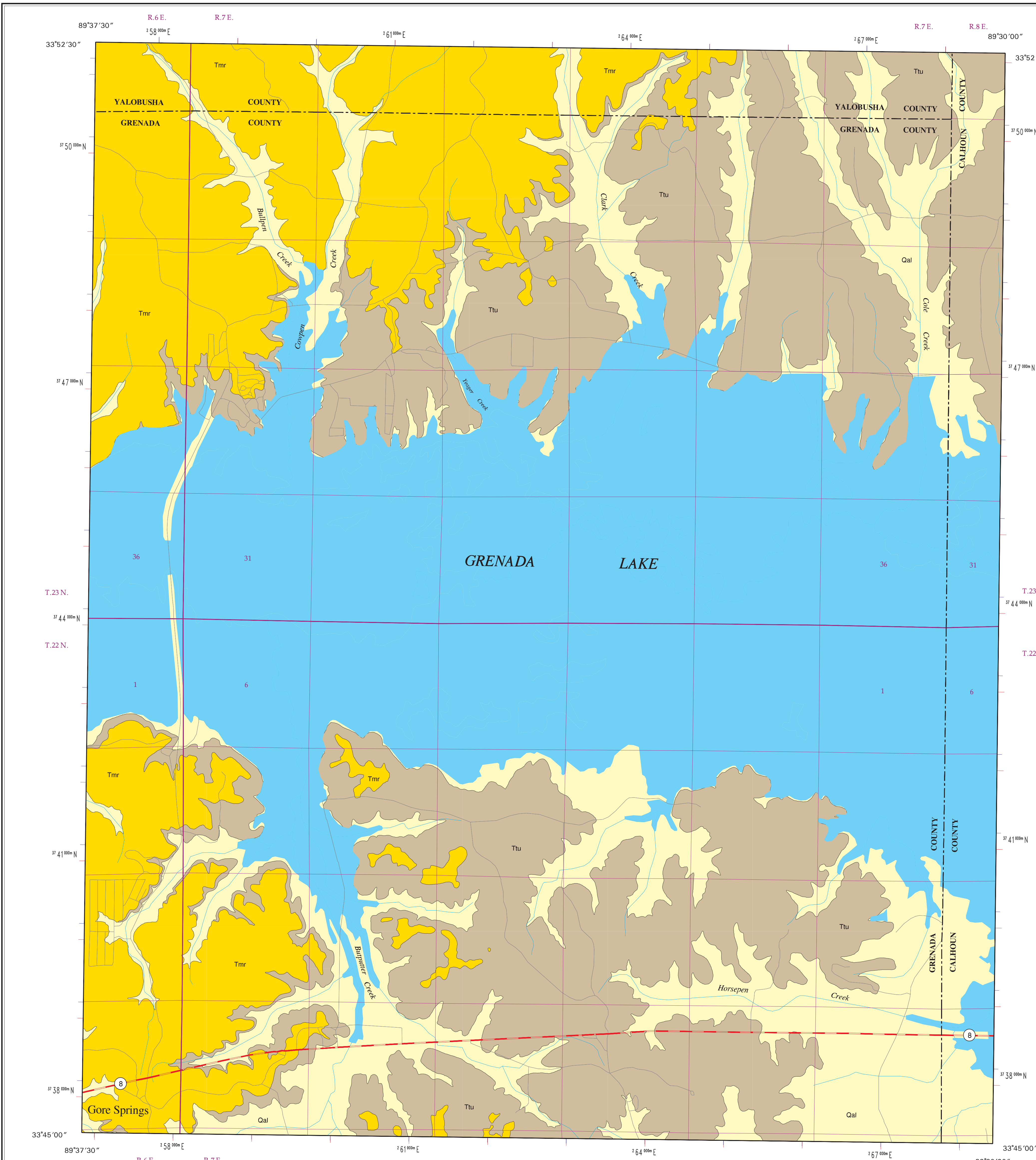
GEOLOGIC MAP of the GORE SPRINGS QUADRANGLE Grenada, Yalobusha and Calhoun Counties, Mississippi

Geology by Stephen L. Ingram, RPG

1999

DESCRIPTION OF MAP UNITS

QUATERNARY HOLOCENE	Qal	ALLUVIUM Sand, flood plain sands and silts.
	MERIDIAN SAND	
EOCENE CLAIBORNE GROUP	Tmr	Sand, orange to yellow to white, medium- to fine-grained quartz with occasional coarse-grained quartz and granules, cross-bedded, mica, clay drapes common, clay rip-up clasts common, occasional thin clay lenses and clay stringers, petrified wood rare. Ironstone and iron-cemented sandstone are common. The Meridian Sand is disconformably incised into the underlying formations as it overlies the underlying Hatchetigbee Formation and overlies the Tusahoma Formation.
	TUSCAHOMA FORMATION	
TERTIARY PALEOCENE WILCOX GROUP	Ttu	Interbedded clay and sand. Clay, medium gray to dark gray, weathers to light gray to light brown, laminated, intercalated with very fine-grained sand, occasionally kaolinized. Sand, orange, very fine-grained quartz, laminated. Ironstone common in sands and clays. The Hatchetigbee and Tusahoma formations are indistinguishable in outcrop, but may be distinguished on geophysical logs in the area.



89°37'30" R.6.E. R.7.E. R.7.E. R.8.E. 89°30'00"

33°52'30" 33°50'00" N 33°47'00" N 33°44'00" N 33°41'00" N 33°38'00" N 33°45'00"

158°00" E 161°00" E 164°00" E 167°00" E 169°00" E

YALOBUSHA COUNTY GRENADA COUNTY YALOBUSHA COUNTY GRENADA COUNTY CALHOUN COUNTY

Grenada LAKE

Gore Springs

Horsepen Creek

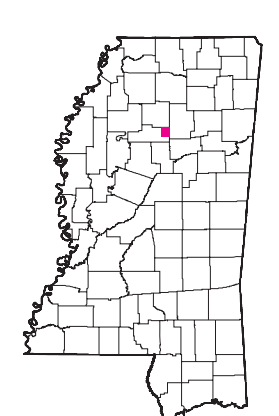
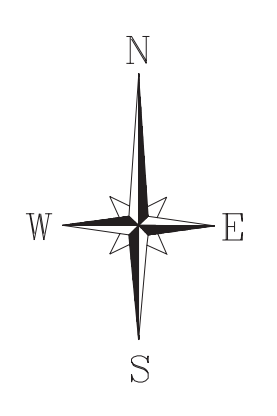
36 31 36 31

T.23.N. T.22.N.

1 6 1 6

89°37'30" R.6.E. R.7.E. R.7.E. R.8.E. 89°30'00"

GEOLOGIC MAP
GORE SPRINGS QUADRANGLE
Grenada, Yalobusha and Calhoun
Counties, Mississippi



Geology field checked in 1998 using the Provisional Edition 1983 U.S. Geological Survey 7.5-minute topographic quadrangle, 1927 North American datum, contour interval 20 feet, supplementary contour interval 5 feet.

Mississippi Transverse Mercator projection, 1983 North American datum, GRS80 spheroid, 1000-meter Universal Transverse Mercator grid ticks, zone 16; 1983 datum shown in red, 1927 datum shown in blue.

Sources: Road and water features, USGS Digital Line Graph data, 1:100,000 scale; Public Land Survey System, Mississippi Automated Resource Information System (MARIS), 1:24,000 scale. Geographic Information System by Daniel W. Morse.