

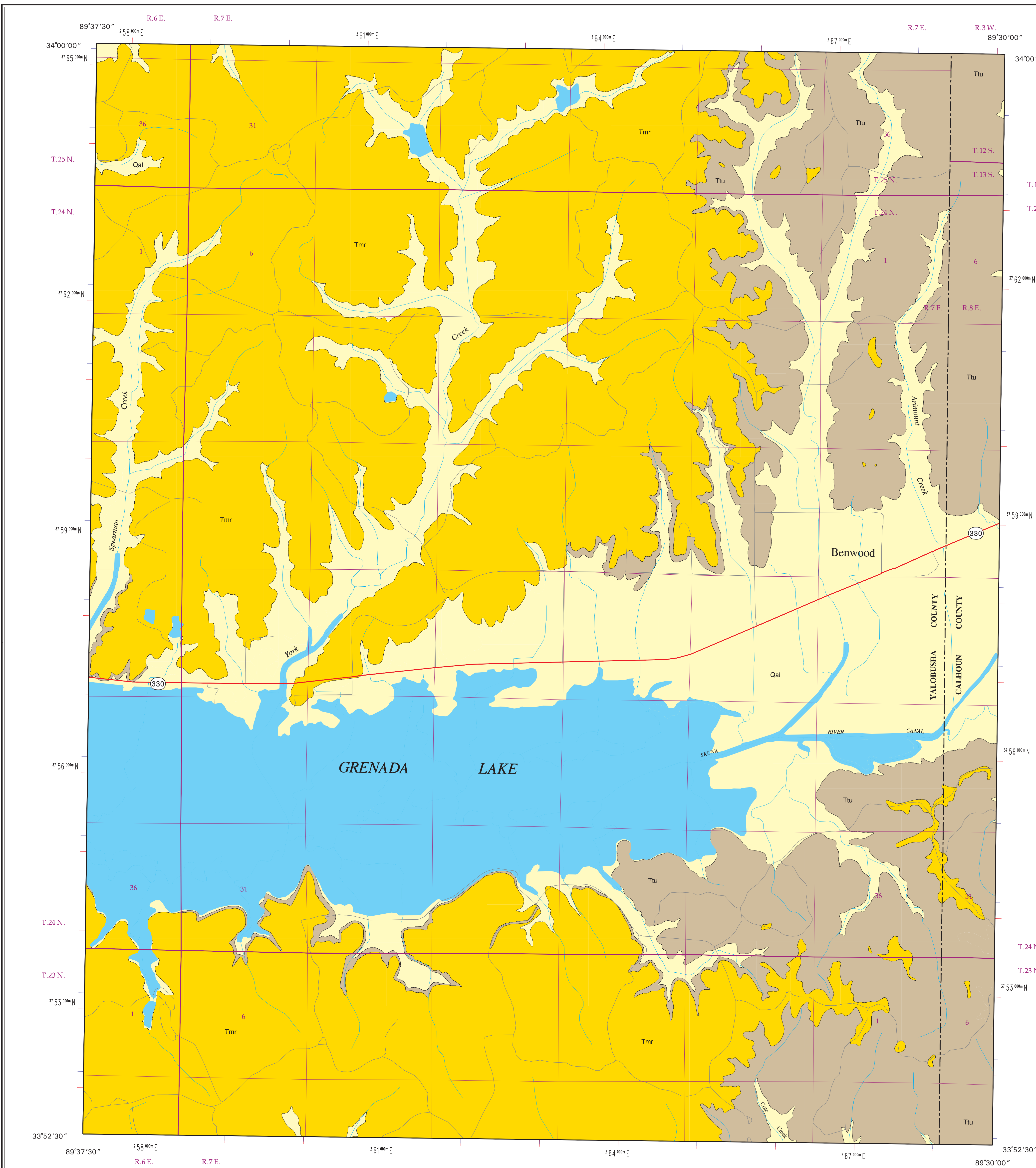
GEOLOGIC MAP
of the
BENWOOD QUADRANGLE
Yalobusha and Calhoun
Counties, Mississippi

Geology by Stephen L. Ingram, RPG

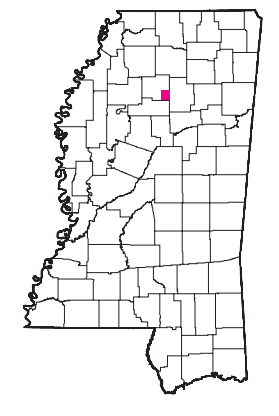
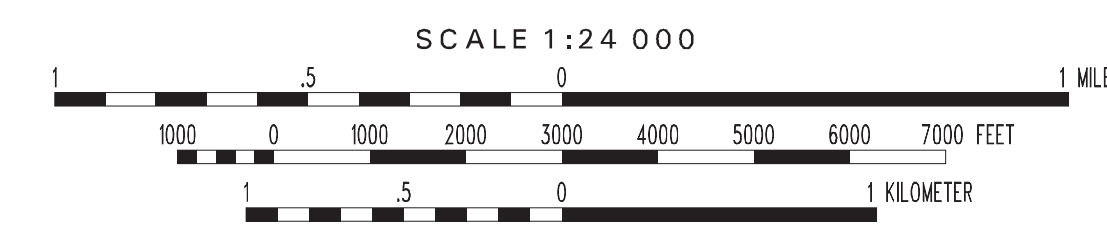
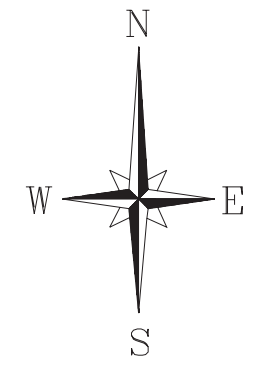
1999

DESCRIPTION OF MAP UNITS

QUATERNARY HOLOCENE	Oal	ALLUVIUM Sand, flood plain sands and silts.
	Tmr	MERIDIAN SAND Sand, orange to yellow to white, medium- to coarse-grained quartz with occasional fine-grained quartz and granules in places, cross-bedded, mica, occasional mica laminae in places, clay drapes common, thin lenses of laminated clay and clay stringers common. Ironstone and iron-cemented sandstone are common. A lower fluvial unit is present in places which is comprised of white to yellow to purple, interbedded fine- to very fine-grained sand. The Meridian Sand is disconformably incised into the underlying formations as it overlies the underlying Hatchetigbee Formation and overlies the Tuscahoma Formation.
TERTIARY Eocene CLAIBORNE GROUP	Ttu	TUSCAHOMA FORMATION Interbedded clay and sand. Clay, medium gray to dark gray, weathers to light gray to light brown, laminated, intercalated with very fine-grained sand, rare pyrite nodules. Sand, orange to yellow, very fine-grained quartz with occasional fine-grained quartz, mica, laminated. Ironstone common in sands and clays. The Hatchetigbee and Tuscahoma formations are indistinguishable in outcrop, but may be distinguished on geophysical logs in the area.
	Ttu	



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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. Modified by David T. Dockery III, RPG; In the southeast corner, two Meridian Sand outliers, which are at the lower limits of resolution, were omitted to achieve an edge match with the adjoining Skuna Quadrangle.

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.