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.

TERTIARY — EOCENE — CLAIBORNE GROUP

Tmr — MERIDIAN SAND

Sand, orange to yellow to white, medium- to fine-gained 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 oversteps the underlying Hatchetigbee Formation and onlaps the Tuscahoma Formation.

TERTIARY — PALEOCENE — WILCOX 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, occasionally kaolinized. Sand, orange, very fine-grained quartz, 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.

GEOLOGIC MAP

GORE SPRINGS QUADRANGLE

Grenada, Yalobusha and Calhoun Counties, Mississippi

SCALE 1:24 000

1 .5 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

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.