



MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF GEOLOGY
OPEN-FILE REPORT 128

GEOLOGIC MAP
of the
SHADY GROVE QUADRANGLE
Copiah County,
Mississippi

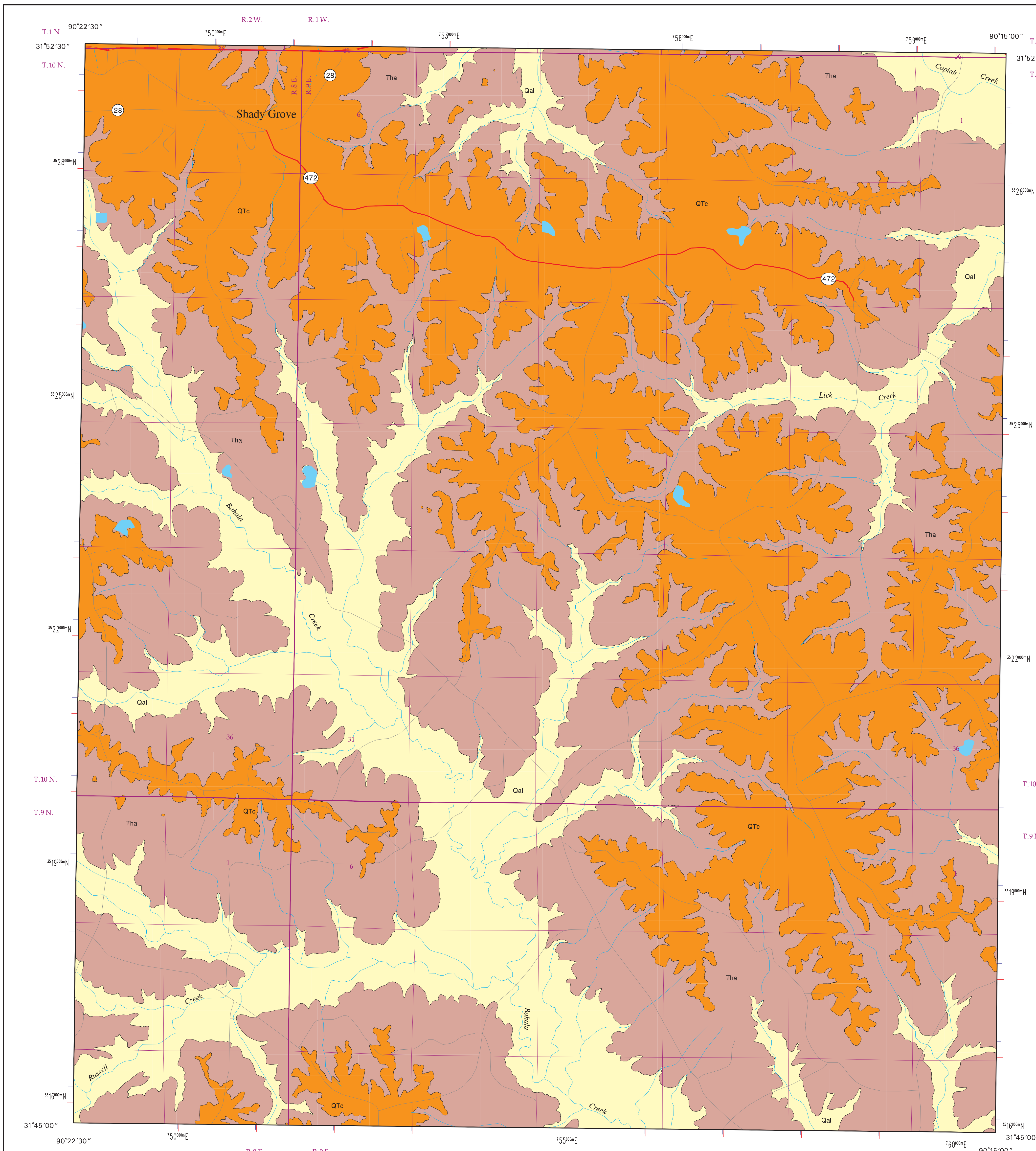


Geology by D. Kenneth Davis and James E. Starnes

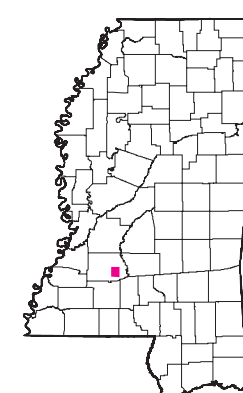
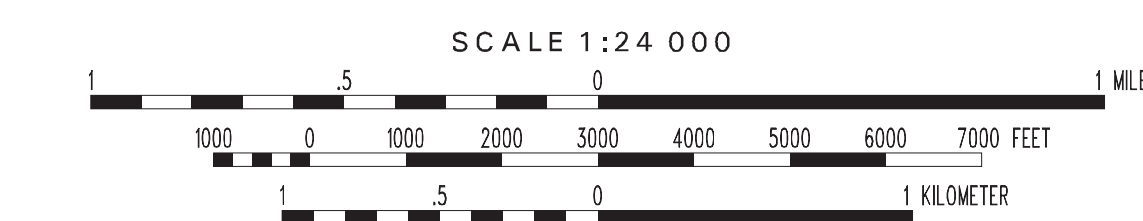
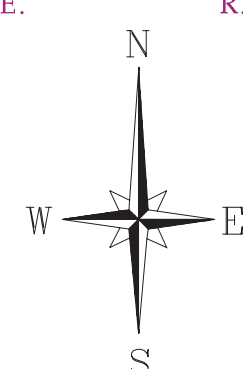
2002

DESCRIPTION OF MAP UNITS

QUATERNARY	HOLOCENE	ALLUVIUM
		Qal Sand, flood plain sands and silts.
PLIO-PLEISTOCENE		CITRONELLE FORMATION
		QtC Sand, yellow, orange, purple, red, pink, fine- to coarse-grained, predominantly quartzose, cross-bedded to massive; graveliferous, pea to cobble size, predominantly chert with lesser amounts of vein quartz, metaquartzite, agate, and sandstone; clay, pink to white, generally occurring as discontinuous lenses and as rip-up clasts, clasts may be boulder size. Conglomeratic ironstone ledges are common in the graveliferous sands at the base of the formation.
TERTIARY	MIOCENE	HATTIESBURG FORMATION
		Tha Clay, green, gray, brown, weathers white to brown, silty to sandy, locally lignitic, barite nodules common; sand, gray, pale yellow to white, often indurated to orthoquartzitic at surface, fine- to coarse-grained, cross-bedded to massive, predominantly quartzose with lesser amounts of chert, quartzite, and mica, silicified wood common.



GEOLOGIC MAP
SHADY GROVE QUADRANGLE
Copiah County, Mississippi



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Geology field checked in 2002 using the 1963 U.S. Geological Survey 7.5-minute topographic quadrangle, 1927 North American datum, contour interval 10 feet.
Mississippi Transverse Mercator projection, 1983 North American datum, GR580 spheroid, 1000-meter Universal Transverse Mercator grid ticks, zone 15; 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.
This map was produced by the Mississippi Office of Geology in cooperation with the U.S. Geological Survey, National Geologic Mapping Program, under STATEMAP grant #01HQAG0043.