



MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY  
OFFICE OF GEOLOGY  
OPEN-FILE REPORT 130

**GEOLOGIC MAP**  
of the  
**STRONGHOPE QUADRANGLE**  
Lincoln and Copiah Counties,  
Mississippi

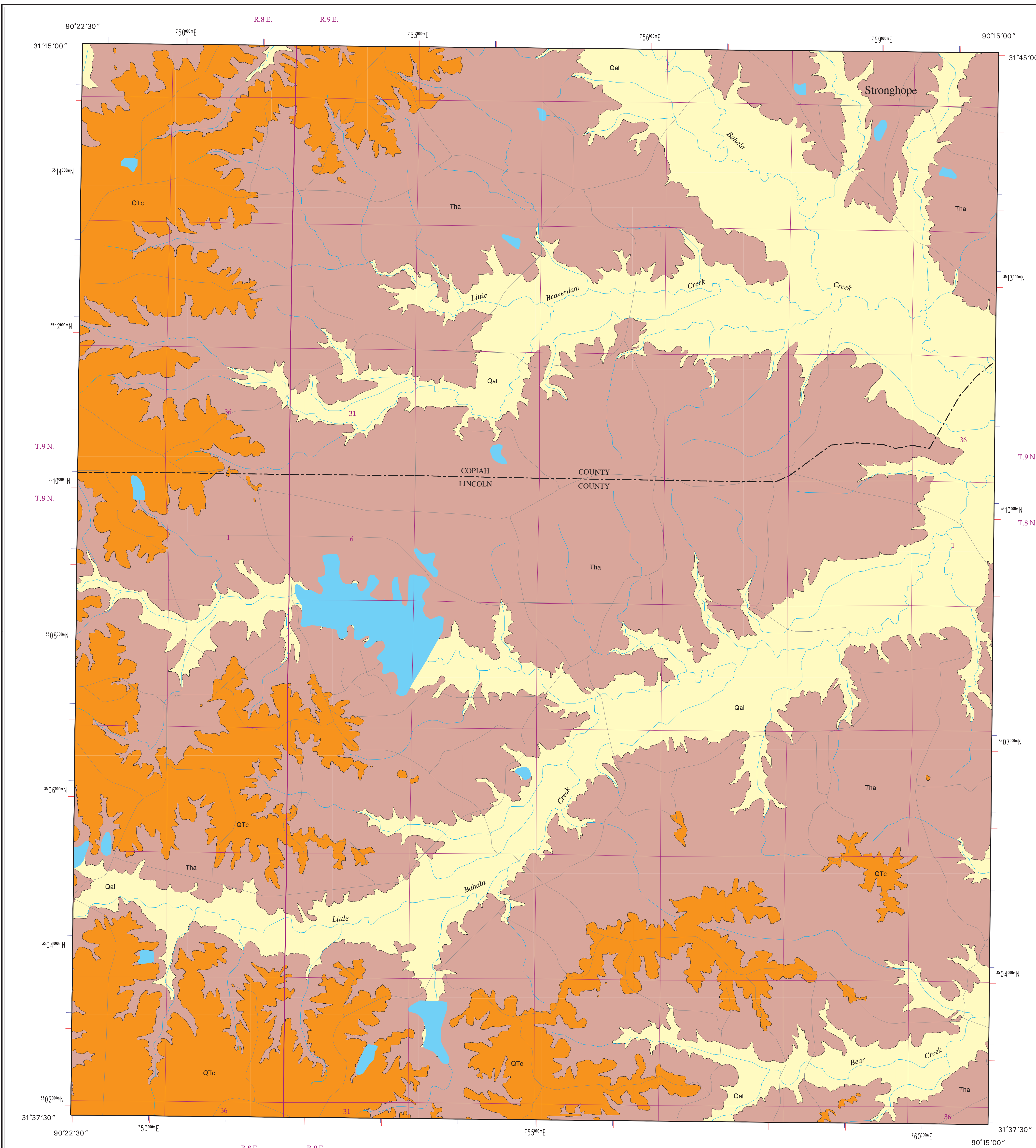


Geology by D. Kenneth Davis and James E. Starnes

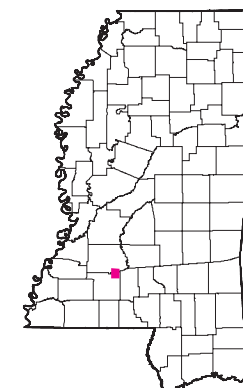
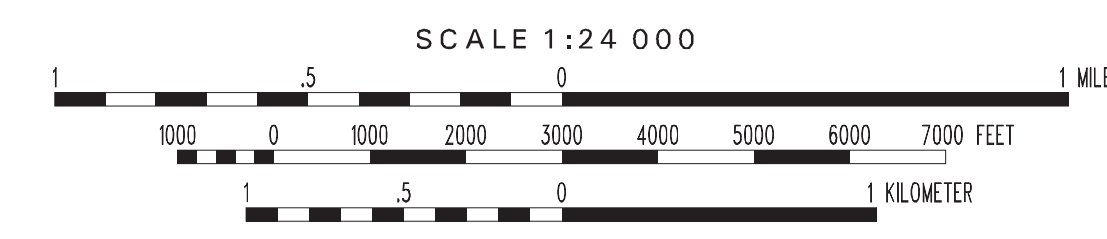
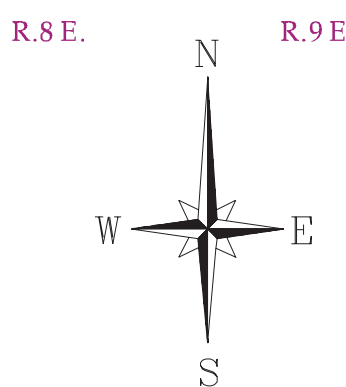
2002

**DESCRIPTION OF MAP UNITS**

QUATERNARY PLIO-PLEISTOCENE TERTIARY MIOCENE	HOLOCENE		<p><b>ALLUVIUM</b></p> <p>Sand, flood plain sands and silts.</p>
	PLIO-PLEISTOCENE		<p><b>CITRONELLE FORMATION</b></p> <p>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.</p>
MIOCENE		<p><b>HATTIESBURG FORMATION</b></p> <p>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 orthoquartzite at surface, fine- to coarse-grained, cross-bedded to massive, predominantly quartzose with lesser amounts of chert, quartzite, and mica, silicified wood common.</p>	



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Lincoln and Copiah Counties, Mississippi



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Geology field checked in 2002 using the 1922 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.