

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
 OFFICE OF GEOLOGY
 OPEN-FILE REPORT 237
GEOLOGIC MAP
 of the
HOT COFFEE QUADRANGLE
 Covington and Jones Counties,
 Mississippi



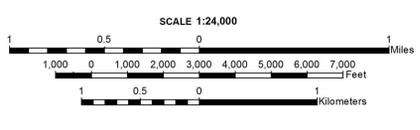
Geology by James E. Starnes, RPG,
 and D. Kenneth Davis

2010

DESCRIPTION OF MAP UNITS

QUATERNARY	ALLUVIUM	Qal	Sand, flood plain sands, silts, and gravels.
	CITRONELLE FORMATION	QtC	Sand, yellow, orange, red, pink, fine- to coarse-grained, predominantly quartzose; graveliferous, pea- to cobble sized, predominantly chert with lesser amounts of vein quartz, metquartzite, agate, and sandstone, typically leached and chalky gravels in upper portions of deposits; clay, kaolinitic, pink to white, generally occurring as discontinuous lenses, and rip-up clasts. Conglomeratic ironstone ledges are common in the graveliferous sands at the base of the formation, which overlie the Hattiesburg Formation unconformably.
PLIO-PLISTOCENE			
TERTIARY	HATTIESBURG FORMATION	Tha	Clay, gray to tan, weathers white to brown, silty to fine-sandy, locally indurated to claystone at outcrop. Claystones locally contain common opal filled vugs. Sand, gray, pale yellow to white, quartzose, cherty, typically exhibits a salt and pepper appearance, fine- to coarse-grained, more angular than sands of the overlying Citronelle Formation, commonly graveliferous in basal sands. Gravels are typically pea- to pebble sized and consist of black chert, honey colored chert, and milky quartz, typically highly polished, subangular to well rounded. Chert gravels occasionally contain Paleozoic fossils of brachiopods, corals, crinoids, and bryozoans.
MIocene			
		H-0025	Drill-hole locality and identification number

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Geology field checked in 2010 using the 1965, PHOTOREVISED 1982, U.S. Geological Survey 7.5-minute topographic quadrangle; 1983 North American datum, contour interval 10 feet, 1000-meter Universal Transverse Mercator grid ticks, zone 16; 1985 datum shown in red; January 2010, magnetic north declination in quadrangle center is 0°34' west of true north.

Sources: The base map is derived from a Digital Raster Graphic of the USGS topographic quadrangle map. Declination, National Oceanic and Atmospheric Administration (NOAA).

Geographic Information System by Daniel W. Morse. MDEQ does not warrant the accuracy or completeness of the source data. Geologic maps are only a guide to current understanding and do not eliminate the need for detailed investigations of specific sites for specific purposes.

This map was produced by the Mississippi Office of Geology in cooperation with the United States Geological Survey, National Geologic Mapping Program, under STATEMAP grant #G09AC00173.

Structural Cross-Section Hot Coffee 7.5-Minute Geologic Quadrangle

