

MISSISSIPPI DEPARTMENT OF
ENVIRONMENTAL QUALITY
OFFICE OF GEOLOGY
OPEN-FILE REPORT 252

GEOLOGIC MAP of the LANHAM QUADRANGLE

Jones County Mississippi



Geology by James E. Starnes, RPG

2012

DESCRIPTION OF MAP UNITS

ALLUVIUM

Flood plain sands, silts, gravels, and clays.

CITRONELLE FORMATION

Sand, yellow, orange, red, pink, fine- to coarse-grained, predominantly quartzose, pebbles to cobble size, predominantly chert with lesser amounts of vein quartz, metachert, agate, and sandstone; clay, pink to white, fine- to coarse-grained, occurring as disseminated masses and as rip-up clasts, clastic, and boulders sizes. Cross-bedding and flame ledges are common in the graveliferous sands at the base of the formation, which overlies the Hattiesburg Formation unconformably.

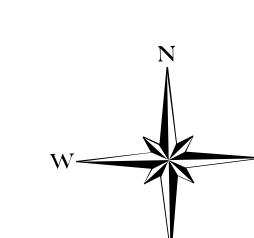
HATTIESBURG FORMATION

Clay, green, gray, brown, weather white to brown and contains opaline concretions in places; silty to sandy (silts commonly weather to mottled reddish-purple and gray, dense, ferruginous concretionary masses), locally lignitic; sand, gray, pale yellow to white, fine- to coarse-grained, cross-bedded to massive, containing pebbles gravel interbedded with siltstones and sandstones; and silstones at the surface, predominantly quartzose with lesser amounts of chert, metachert, mica, and heavy minerals, silicified and coalified wood common; gravel, well-rounded (white, yellow, pink, and gray) and clastic, and (gray, yellow, white, banded) quartz dense, chert nodules, and subangular to well-welded chert (white, gray, black). Some chert clasts are oölithic, banded, or contain marine Paleozoic fossils such as crinoids, brachiopods, bryozoans, rugose and tabular corals, and goniatites. The Hattiesburg Formation is designated as the base of a sand unit of regional extent that occurs at the approximate horizon of the base of the Fleming Formation in Louisiana and the middle-Miocene Amos Sand in Alabama.

#166 Drill-hole locality and identification number



GEOLOGIC MAP
LANHAM QUADRANGLE
Jones County, Mississippi



1:24,000
1,000 0 1,000 2,000 3,000 4,000 5,000 6,000 7,000
Feet
0.5 0 0.475 0 0.95 Kilometers

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Geology field checked in 2012 using the 2000, U.S. Geological Survey 7.5-minute topographic quadrangle, 1983 North American datum, contour interval 10 feet, Universal Transverse Mercator projection, 1983 Albers conic projection, GRS83 spheroid, 1000-meter Universal Transverse Mercator grid ticks, zone 16, 1983 datum shown in red.

January 2012, magnetic north declination in quadrangle center is -1°3' west of true north.

Sources: The base map is derived from the Digital 2012 USTopo 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 Geographic Mapping Program, under STATEMAP grant #G11AC20265.

Structural Cross-Section of the Lanham 7.5-Minute Geologic Quadrangle

