MISSISSIPPI DEPARTMENT OF
ENVIRONMENTAL QUALITY
OFFICE OF GEOLOGY
OPEN-FILE REPORT 228

GEOLOGIC MAP
of the
ELLISVILLE QUADRANGLE

Jones County, Mississippi

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2009

DESCRIPTION OF MAP UNITS

QUATERNARY — HOLOCENE

ALLUVIUM — Qal

Flood plain sands, silts, gravels, and clays.

QUATERNARY — PLIO - PLEISTOCENE

CITRONELLE FORMATION — QTc

Sand, yellow, orange, red, pink, fine- to coarse-grained, predominantly quartzose; graveliferous, pea- to cobble size, predominantly chert with lesser amounts of vein quartz, metaquartzite, agate, and sandstone, 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.

TERTIARY — MIOCENE

HATTIESBURG FORMATION — Tha

Clay, gray to brown, green, weathers white to tan, silty to fine-sandy, ferrugenous interlamina in places, typically indurates to claystone at outcrop. Sand, gray, pale yellow to white, quartzose, cherty, typically exhibits a salt and pepper appearance , fine- to coarse-grained, more angular than the sands of the overlying Citronelle Formation, commonly graveliferous in basal sands. Gravels are typically pea-sized and consist of black chert and milky quartz, typically highly polished, subangular to well rounded. Unweathered gravels are often encrusted with pyrite.

K-0049 — Drill-hole locality and identification number

GEOLOGIC MAP
ELLISVILLE QUADRANGLE
Jones County, Mississippi

1:24,000

1 0.5 0 1 Miles
1,000 0 1,000 2,000 3,000 4,000 5,000 6,000 7,000 Feet
1 0.5 0 1 Kilometers

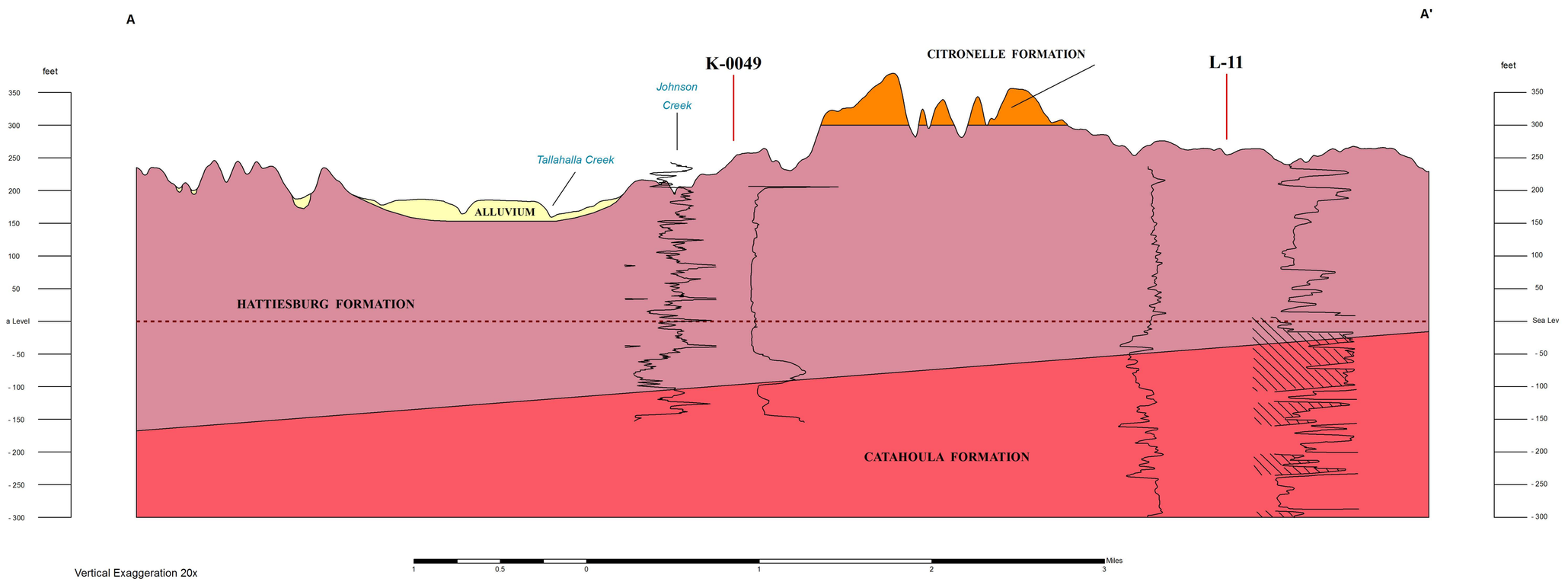
Geology field checked in 2009 using the 1984, photorevised 1982, U.S. Geological Survey 7.5-minute topographic quadrangle, 1983 North American datum, contour interval 10 feet. Universal Transverse Mercator projection. 1983 North American datum. GRS80 spheroid. 1000-meter Universal Transverse Mercator grid ticks, zone 16; 1983 datum shown in red. January 2009, 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 #08HQAG0101.

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



Vertical Exaggeration 20x