



GEOLOGIC MAP of the STRENGTHFORD QUADRANGLE

Wayne and Jones Counties,
Mississippi

Geology by James E. Starnes, RPG



2012

DESCRIPTION OF MAP UNITS

QUATERNARY
HOLOCENE

ALLUVIUM
Qal
Flood plain sands, silts, gravels, and clays.

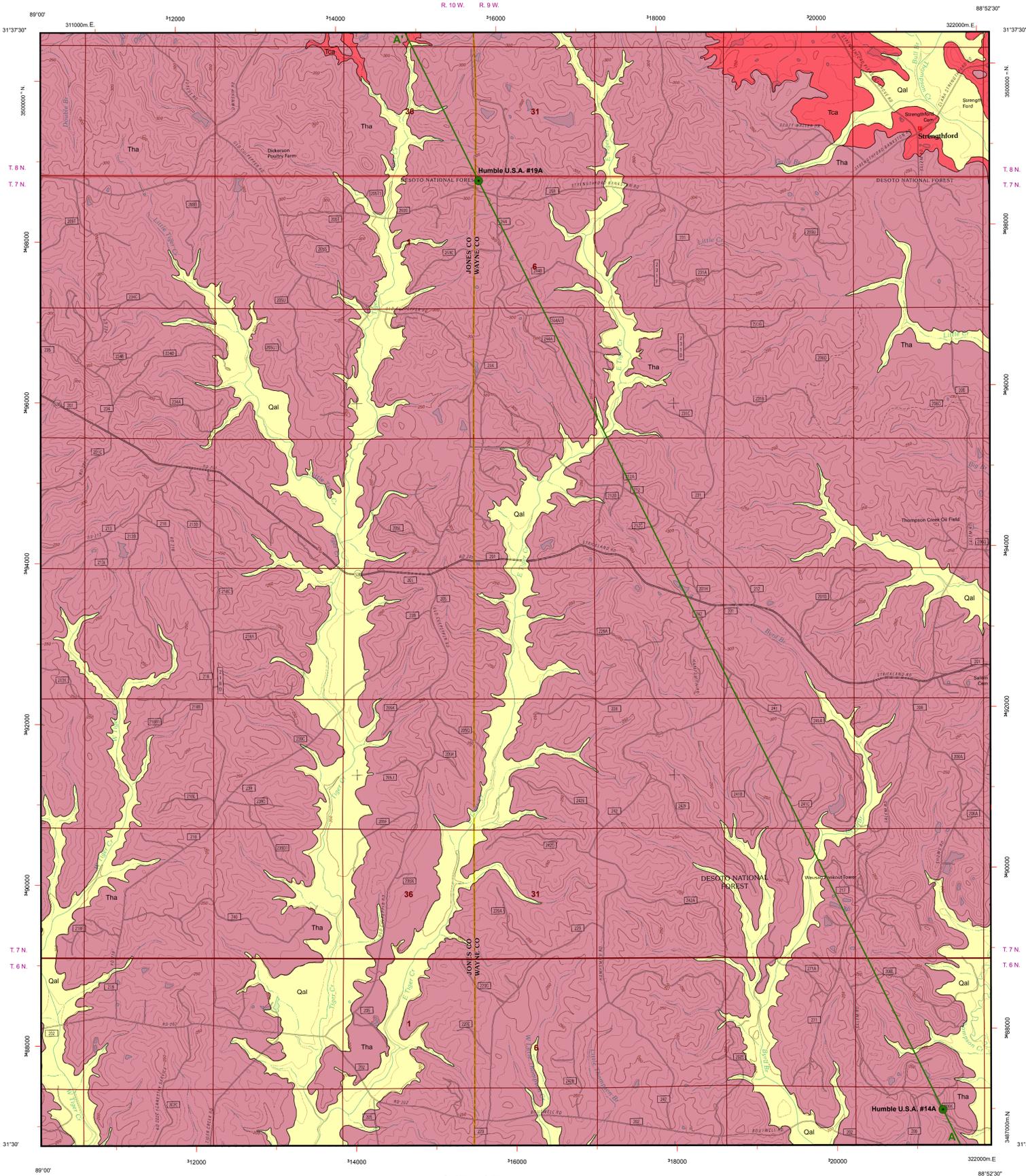
TERTIARY
MIOCENE

HATTIESBURG FORMATION
Tha
Clay, green, gray, brown, weathers white to brown and contains opaline concretions in places, silty to sandy (silt commonly weathers 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 pea gravel in basal portion, often indurated to sandstones and siltstones at the surface, predominantly quartzose with lesser amounts of chert, metaquartzite, mica, and heavy minerals, silicified and coalified wood common; gravel, well-rounded quartz (white, yellow, brown, pink, and clear), agate (gray, yellow, white, banded, quartz druse or chalcedony), and subangular to well-rounded chert (white, gray, black). Some chert clasts are oolitic, banded, or contain marine Paleozoic fossils such as crinoids, brachiopods, bryozoans, rugose and tabulate corals, and gastropods. The base of the Hattiesburg Formation is designated at 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.

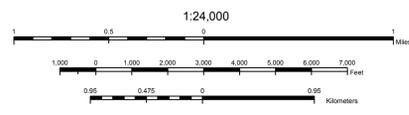
OLIGOCENE

CATAHOULA FORMATION
Tca
Sand, gray, pale yellow to white, fine- to coarse-grained, cross-bedded to massive with rare thinly-bedded pea gravels (gravels consist of black chert and milky quartz, are highly polished, subangular to well rounded), often indurated to sandstones at surface, predominantly quartzose with lesser amounts of chert, metaquartzite, mica, and heavy minerals, slightly glauconitic in places, silicified wood and fossil palm common; clay, green, gray, brown, weathers white to brown, silty to sandy, lignitic common in basal clays.

#242
● Drill-hole locality and identification number



GEOLOGIC MAP
STRENGTHFORD QUADRANGLE
Wayne and Jones Counties,
Mississippi



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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 North American datum, GRS80 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°9' west of true north.

Sources: The base map is derived from the Digital 2012 USTPO 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.

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

