

MISSISSIPPI DEPARTMENT OF
ENVIRONMENTAL QUALITY
OFFICE OF GEOLOGY
OPEN-FILE REPORT 289

GEOLOGIC MAP of the HARLESTON QUADRANGLE

Jackson and George Counties,
Mississippi

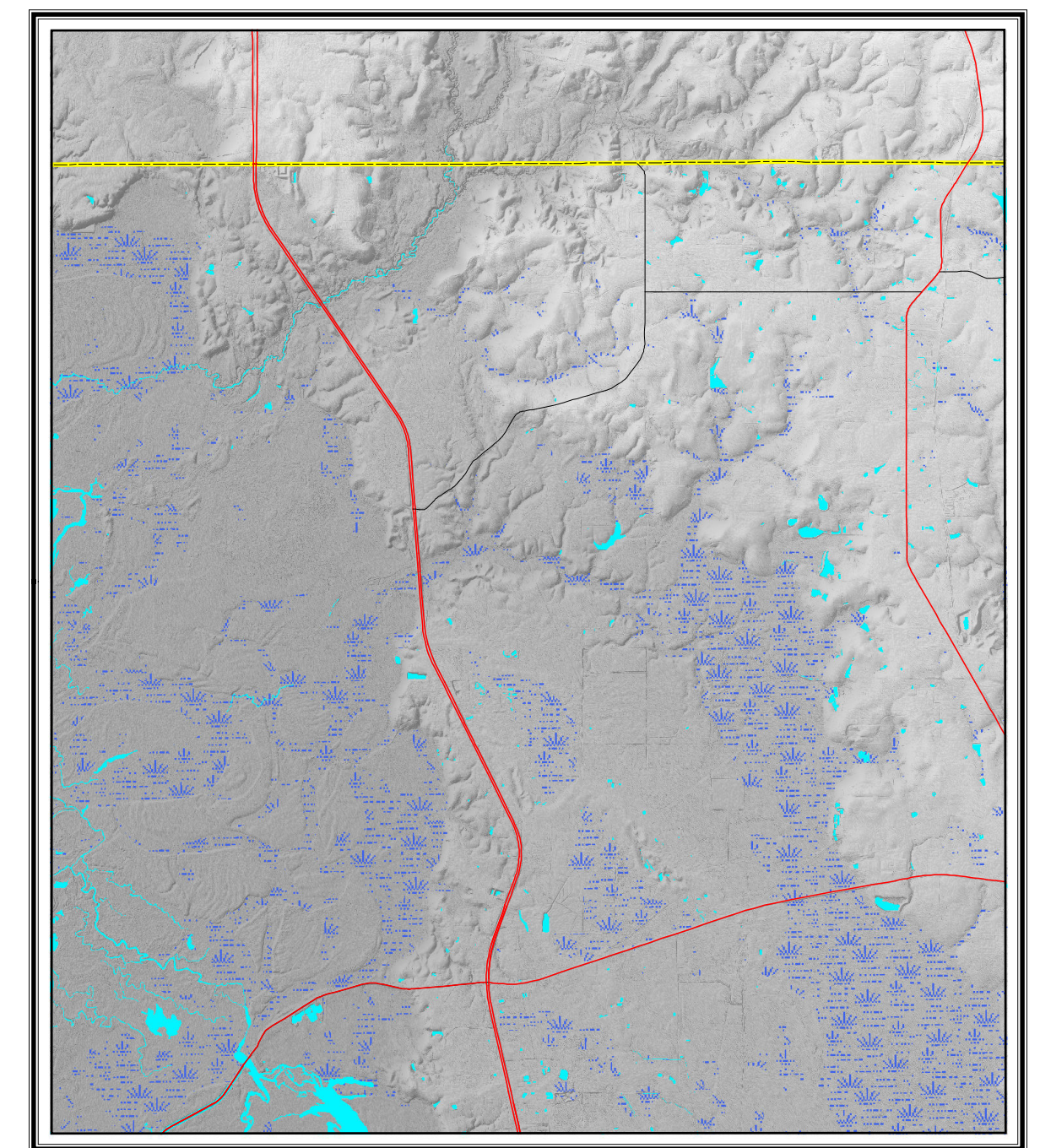


Geology by James E. Starnes, RPG
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DESCRIPTION OF MAP UNITS

HOLOCENE	Qal	ALLUVIUM Flood plain sands, silts, gravels, and clays.
	Qaf	ALLUVIAL FAN Alternating silts, sands, and gravels. Coarsest at the apex of the fan, fining laterally (radially) from the apex of the fan.
QUATERNARY PLEISTOCENE	Qtwr	WADE TERRACE Sand, orange to tan colored, fine- to coarse-grained, predominantly quartzose, cross-bedded to massive; graveliferous, pea- to cobble-size, predominantly leached to chalky brown, gray, and white-colored chert and milky quartz; clay, kaolinitic, pink to white, generally occurring as discontinuous lenses. Ferruginous sandstone and pyroclastic common in basal contact with the underlying Pascagoula Formation.
	Qtbr	BIG POINT TERRACE Sand, orange to tan colored, fine- to coarse-grained, predominantly quartzose, cross-bedded to massive; graveliferous, pea- to cobble-size, predominantly leached to chalky brown, gray, and white-colored chert and milky quartz; clay, kaolinitic, pink to white, generally occurring as discontinuous lenses. Ferruginous sandstone and pyroclastic common in basal contact with the underlying Pascagoula Formation.
	Qthr	HURLEY TERRACE Sand, orange to tan colored, fine- to coarse-grained, predominantly quartzose, cross-bedded to massive; graveliferous, pea- to cobble-size, predominantly leached to chalky brown, gray, and white-colored chert and milky quartz; clay, kaolinitic, pink to white, generally occurring as discontinuous lenses. Ferruginous sandstone and pyroclastic common in basal contact with the underlying Pascagoula Formation.
	Qtmr	HARLESTON TERRACE Sand, orange to tan colored, fine- to coarse-grained, predominantly quartzose, cross-bedded to massive; graveliferous, pea- to cobble-size, predominantly leached to chalky brown, gray, and white-colored chert and milky quartz; clay, kaolinitic, pink to white, generally occurring as discontinuous lenses. Ferruginous sandstone and pyroclastic common in basal contact with the underlying Pascagoula Formation.
TERTIARY MIOCENE	Qtmr	MOVELLA TERRACE Sand, orange to tan colored, fine- to coarse-grained, predominantly quartzose, cross-bedded to massive; graveliferous, pea- to cobble-size, predominantly leached to chalky brown, gray, and white-colored chert and milky quartz; clay, kaolinitic, pink to white, generally occurring as discontinuous lenses. Ferruginous sandstone and pyroclastic common in basal contact with the underlying Pascagoula Formation.
	Qtmr	PASCAGOULA FORMATION Shallow marine to intertidal and deltaic deposits, contains the marker fossil, <i>Rangia johnsoni</i> . Clay, green, gray, brown, and white; locally lignitic, locally calcareous and fossiliferous. Weathers mottled purple to pink and white to reddish-brown, silty to fine-sandy. Sand, dark greenish-gray and glauconitic, micaceous, locally lignitic, fine- to coarse-grained, predominantly quartzose; graveliferous, pea- to small-cobble size consisting of black, brown, and gray-colored chert and milky quartz, subangular to well rounded. Silicified wood common.
	C-0165	Drill-hole locality and identification number



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

