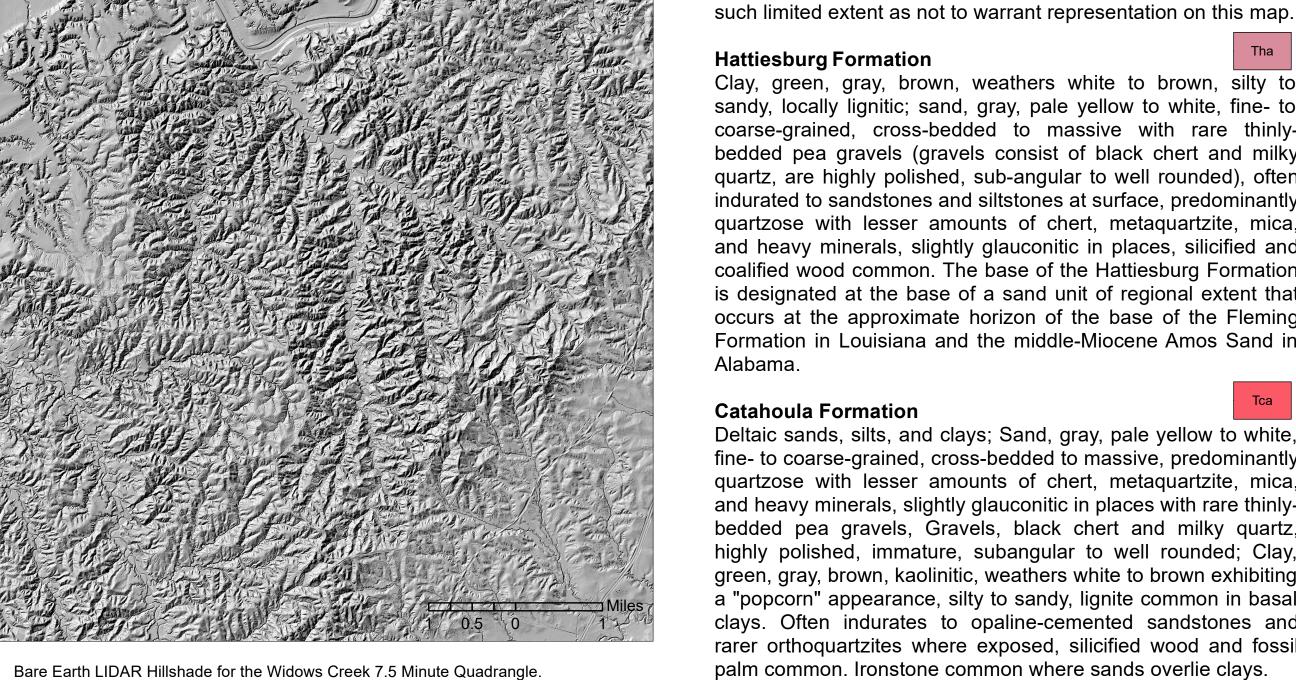
Drill-hole locality and identification number

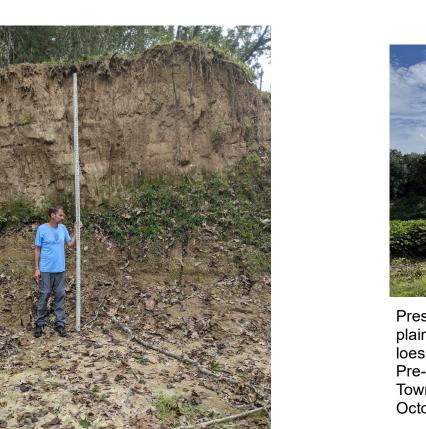


clasts, boulder size ice-rafted clasts of sandstone and chert are not uncommon. Gravels are predominantly chert with lesser amounts of vein quartz, metaquartzite, agate, sandstone, and rare rhyolite clasts; clay, pink to white, generally occurring as discontinuous lenses and as rip-up clasts up to boulder-size. Conglomeratic ironstone ledges are common in the graveliferous sands at the base of the deposits, which overlies the Hattiesburg Formation unconformably. Two distinct terraces are identified: one heavily eroded terrace perched approximately 300 feet above MSL in elevation and one younger, completely preserved terrace beneath the loess adjacent to the Mississippi River alluvium with a base perched between 20-40 feet above MSL with relic alluvial plain surface at approximately 200 feet above MSL. The escarpment between the lower Pre-loess terrace and the adjacent uplands is approximated due to being masked by a thick mantle of loess. "Head-of-hollow", terracederived valley-fill deposits are common at lower elevations and

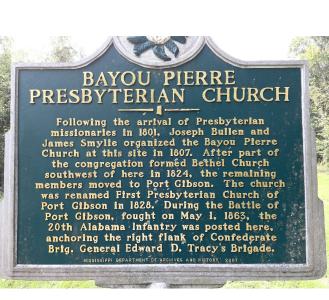
Clay, green, gray, brown, weathers white to brown, silty to sandy, locally lignitic; sand, gray, pale yellow to white, fine- to coarse-grained, cross-bedded to massive with rare thinlybedded pea gravels (gravels consist of black chert and milky quartz, are highly polished, sub-angular to well rounded), often indurated to sandstones and siltstones at surface, predominantly quartzose with lesser amounts of chert, metaquartzite, mica, and heavy minerals, slightly glauconitic in places, silicified and coalified wood common. 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

are isolated to valley walls adjacent to the erosional remnants of the higher of the two terrace deposits. These deposits are of

Deltaic sands, silts, and clays; Sand, gray, pale yellow to white, fine- to coarse-grained, cross-bedded to massive, predominantly quartzose with lesser amounts of chert, metaquartzite, mica, and heavy minerals, slightly glauconitic in places with rare thinlybedded pea gravels, Gravels, black chert and milky quartz, highly polished, immature, subangular to well rounded; Clay, green, gray, brown, kaolinitic, weathers white to brown exhibiting a "popcorn" appearance, silty to sandy, lignite common in basal clays. Often indurates to opaline-cemented sandstones and rarer orthoquartzites where exposed, silicified wood and fossil palm common. Ironstone common where sands overlie clays.



side borrow pit in Section 59 Township 11N Range 1E. Photographed on October 14,



Historic marker for the Bayou Pierre Presbyterian Church in Section 27 Township 12N. Range 2E. Photographed on October



Ledge of indurated Catahoula Sandstone exposed beneath the alluvium along the channel of the confluence of Buck and Widows Creek in Section 17 Township 11N. Range 2E. Photographed on October 14,

Vertical Exaggeration X 20



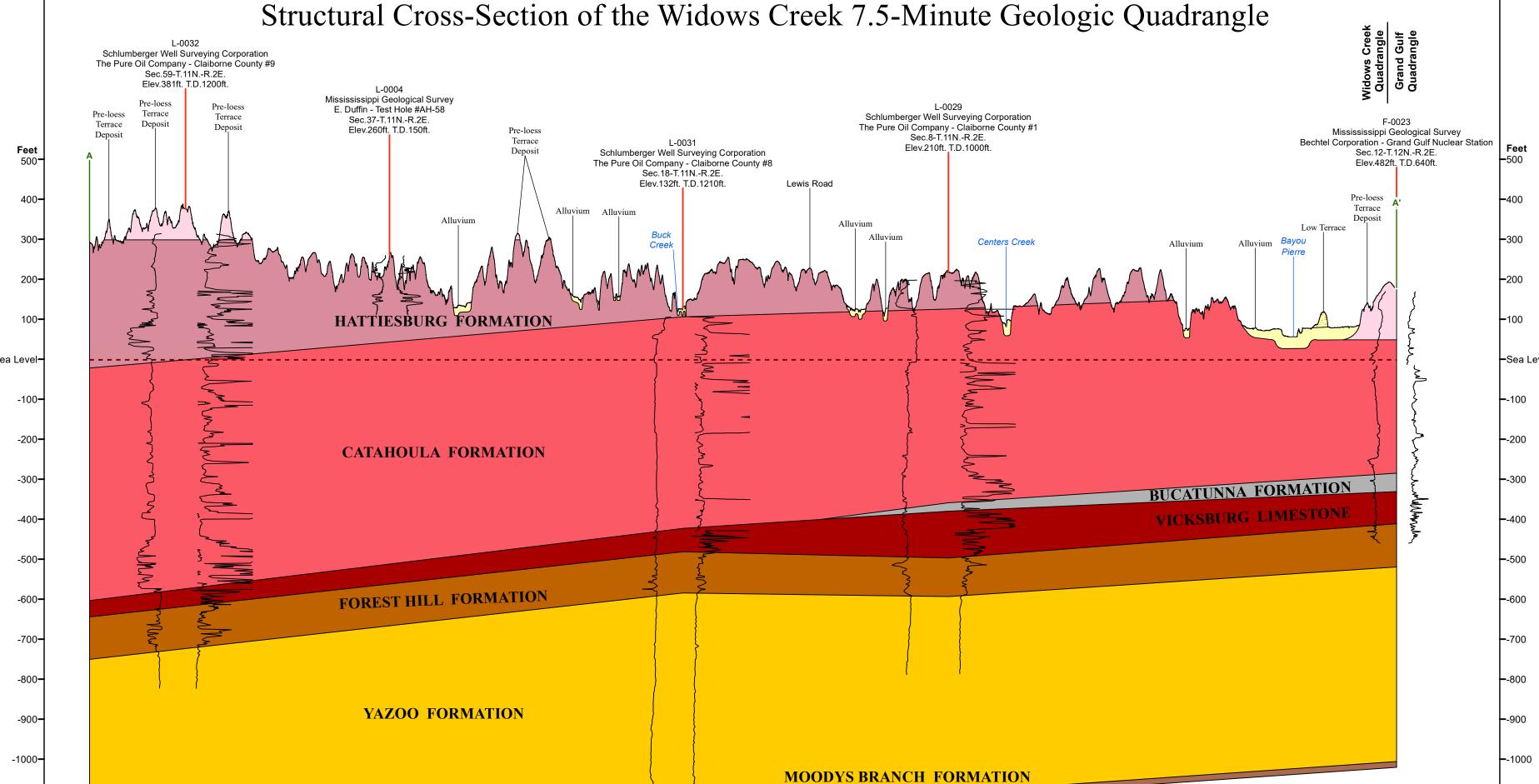
plain reflected beneath a uniform mantle of loess in the 200-foot terminus of the lower Pre-loess Terrace Deposit in Section 58 Township 11N. Range 1E. Photographed on October 14, 2021.

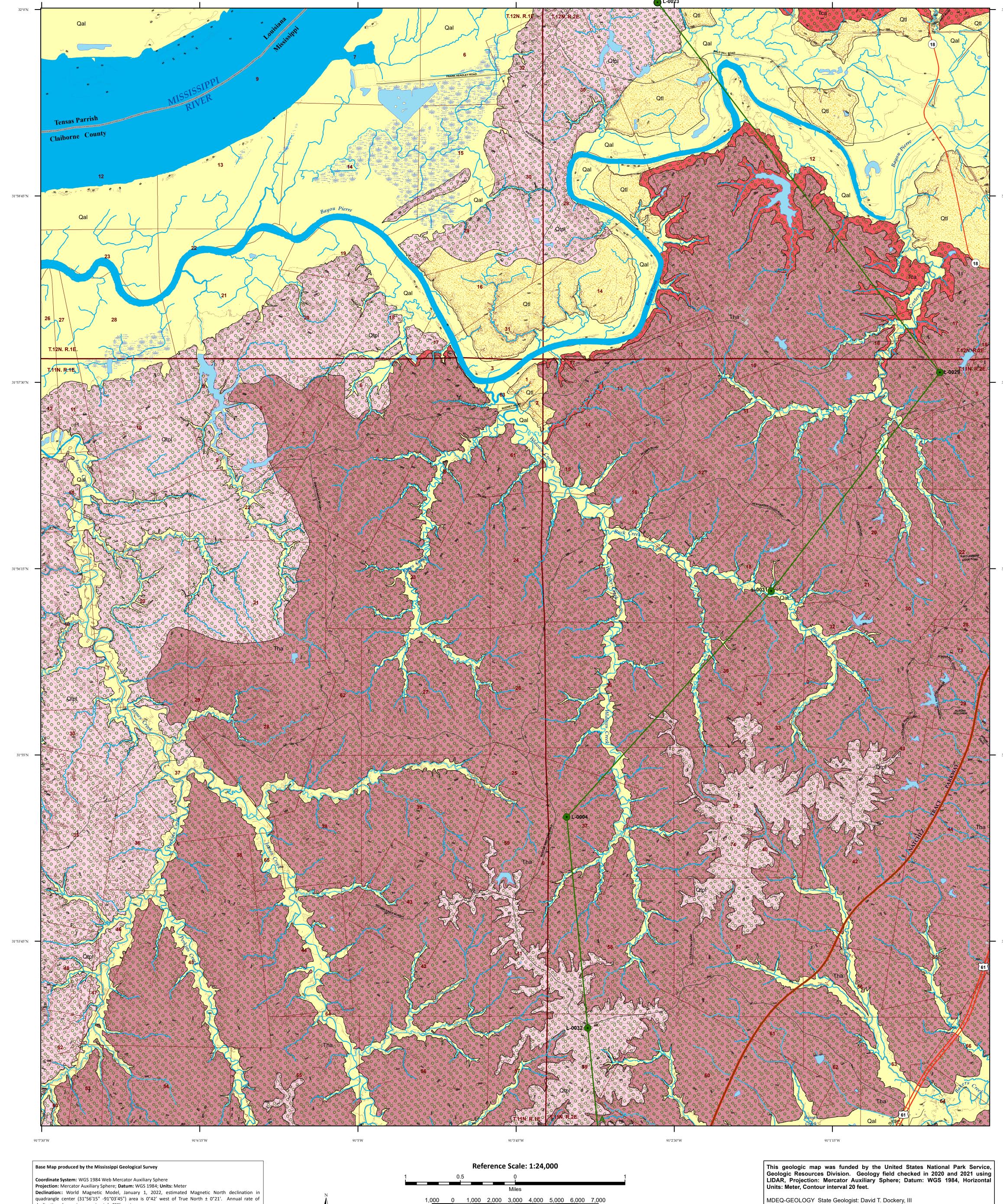


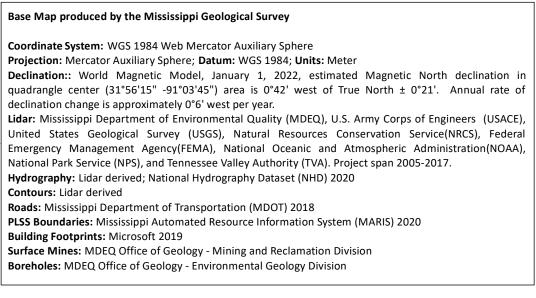
Flagstone of locally-acquired indurated Catahoula Sandstone used for foundation pillars on the historic Bayou Pierre Presbyterian Church in Section 27 Township 12N. Range 2E. Photographed on October

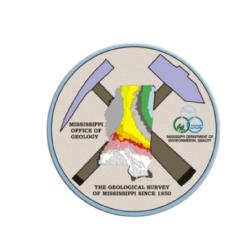


Porch constructed of flagstone of locallyacquired indurated Catahoula Sandstone on the historic Bayou Pierre Presbyterian Church in Section 27 Township 12N. Range 2E. Photographed on October 14, 2021.

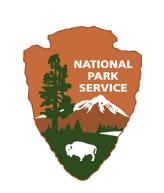


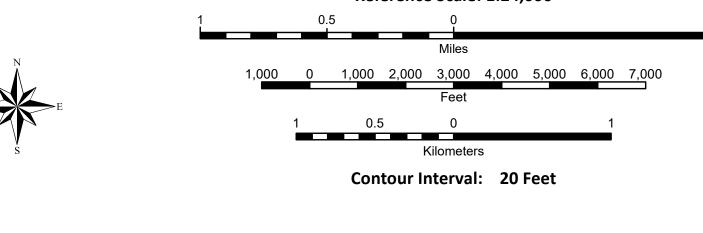




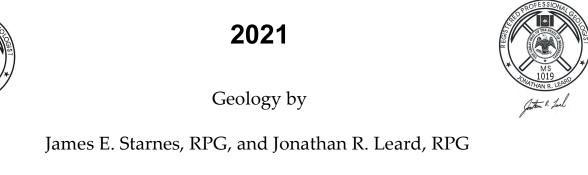








GEOLOGIC MAP of the WIDOWS CREEK QUADRANGLE Claiborne County, Mississippi



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MDEQ-GEOLOGY Geographic Information Systems: Daniel W. Morse

MDEQ-GEOLOGY Geophysical Logging: Andrew Newcomb and Paul Parrish

Geologic maps are only a guide to current understanding and do not eliminate

the need for detailed investigations of specific sites for specific purposes. The

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either expressed or implied, of the State of Mississippi or of the United States

MDEQ-GEOLOGY Drillers: Archie Mckenzie and Trey Magee

