

GEOLOGIC MAP
of the
TOMNOLEN QUADRANGLE
Choctaw and Webster Counties,
Mississippi



Geology by David E. Thompson

1998

DESCRIPTION OF MAP UNITS

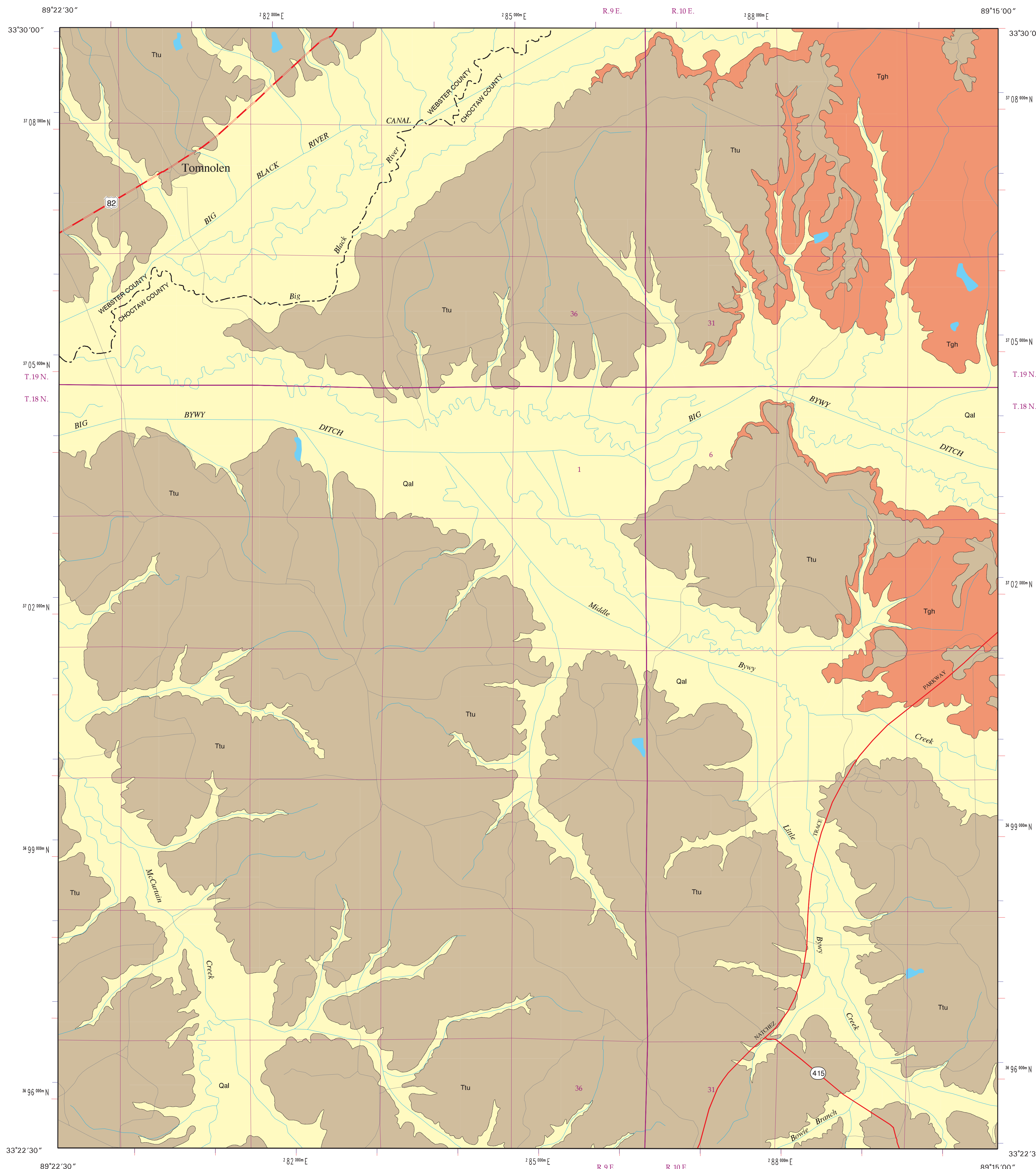
QUATERNARY
HOLOCENE

ALLUVIUM
Qal Sand, flood plain sands and silts.

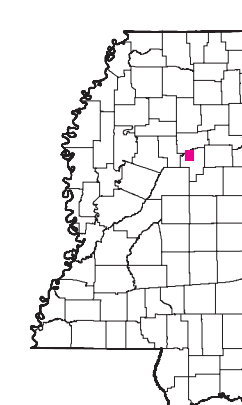
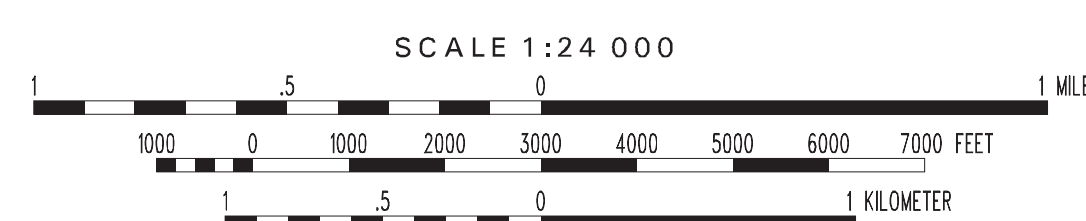
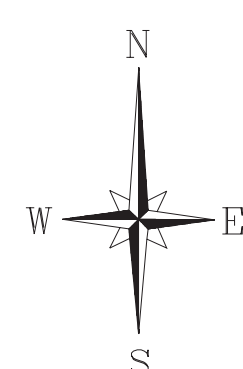
TERTIARY
PALEOCENE
WILCOX GROUP

TUSCAHOMA FORMATION
Ttu Sand, dark greenish gray to light gray, weathers reddish orange to pale yellow orange, very fine- to coarse-grained, quartzose, micaceous, carbonaceous, glauconitic. Interbedded to interlaminated with clay and silt, light olive gray to brownish black, weathers to various shades of red, gray, brown, or white; lignite, contains Red Hills Mine lignite seams H through L. Total thickness is 400 feet. Basal sandy interval constitutes the Middle Wilcox Aquifer.

NANAFALIA FORMATION
Grampian Hills Member
Tgh Clay and silt, medium gray to pale green, weathers to various shades of red, brown, and gray, carbonaceous, lignitic, contains Red Hills Mine lignite seams C through G; interbedded to interlaminated with sand, dark greenish gray to medium gray, weathers reddish orange to pale yellowish orange, very fine- to medium-grained, quartzose, micaceous, carbonaceous, locally glauconitic. Basal portion is typically sandy. Thickness is 130 feet.



GEOLOGIC MAP
TOMNOLEN QUADRANGLE
Choctaw and Webster Counties, Mississippi



Geology field checked in 1996 using the 1966 U.S. Geological Survey 7.5-minute topographic quadrangle, 1927 North American datum, contour interval 10 feet.
Mississippi Transverse Mercator projection, 1983 North American datum, GRS80 spheroid, 1000-meter Universal Transverse Mercator grid ticks, zone 16, 1983 datum shown in red, 1927 datum shown in blue.
Sources: Road and water features, USGS Digital Line Graph data, 1:100,000 scale. Public Land Survey System, Mississippi Automated Resource Information System (MARIS), 1:24,000 scale.
Geographic Information System by Daniel W. Morse. Contribution by Barbara E. Yassin.