

Surface Geology

Sperati Point, North Dakota Quadrangle

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UNIT DESCRIPTIONS

QUATERNARY SYSTEM

RECENT

QAHE FORMATION

Qal

Alluvium
Brownish gray to black sand, silt, clay, and lenses of gravel; floodplain deposits along recent drainages. Includes lower terrace deposits.

RECENT/PLEISTOCENE

Qat

Terrace Deposits
Well defined terraces that occur approximately 20 or more feet above the modern floodplain. These are generally fill terraces consisting of alluvium.

Qca

Colluvium/Alluvium Deposits
Colluvium or slopewash overlying alluvial deposits. A wedge-shaped apron or mantle of slopewash extends from adjacent hillslopes onto older alluvium - typically terraces.

Qls

Landslide Deposits
Variable mixture of strata and deposits that have slid to the base of steep slopes. Most of the landslides in this area are hundreds, if not thousands, of years old.

Qlc

Landslide and Colluvium Deposits
Colluvium or slopewash mantles that partially obscures what are often older landslide deposits.

PLEISTOCENE

COLEHARBOR GROUP

Qsg

Sand and Gravel Deposits
Fine- to coarse-grained sand (primarily quartz) and sub-rounded to sub-angular gravel containing black to gray volcanic porphyries, cherts, opal, and petrified wood. Likely deposited by the ancestral Little Missouri River and preserved as erosional remnants in relatively thin, upland deposits.

TERTIARY SYSTEM

PALEOCENE




Tsb

SENTINEL BUTTE FORMATION
Alternating beds of grayish brown to gray sandstone, siltstone, mudstone, claystone, and lignite.


Tbc

BULLION CREEK FORMATION
Alternating beds of yellow to brown sandstone, siltstone, mudstone, claystone, and lignite.

Other Features

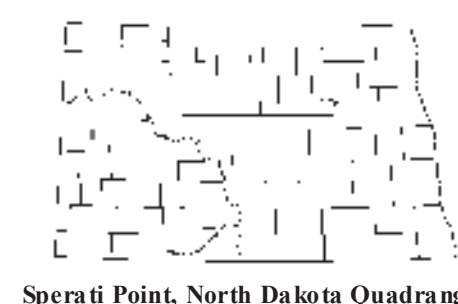
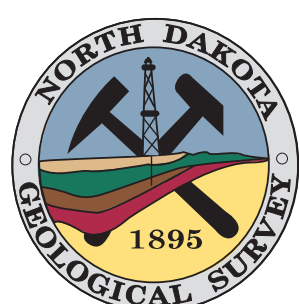
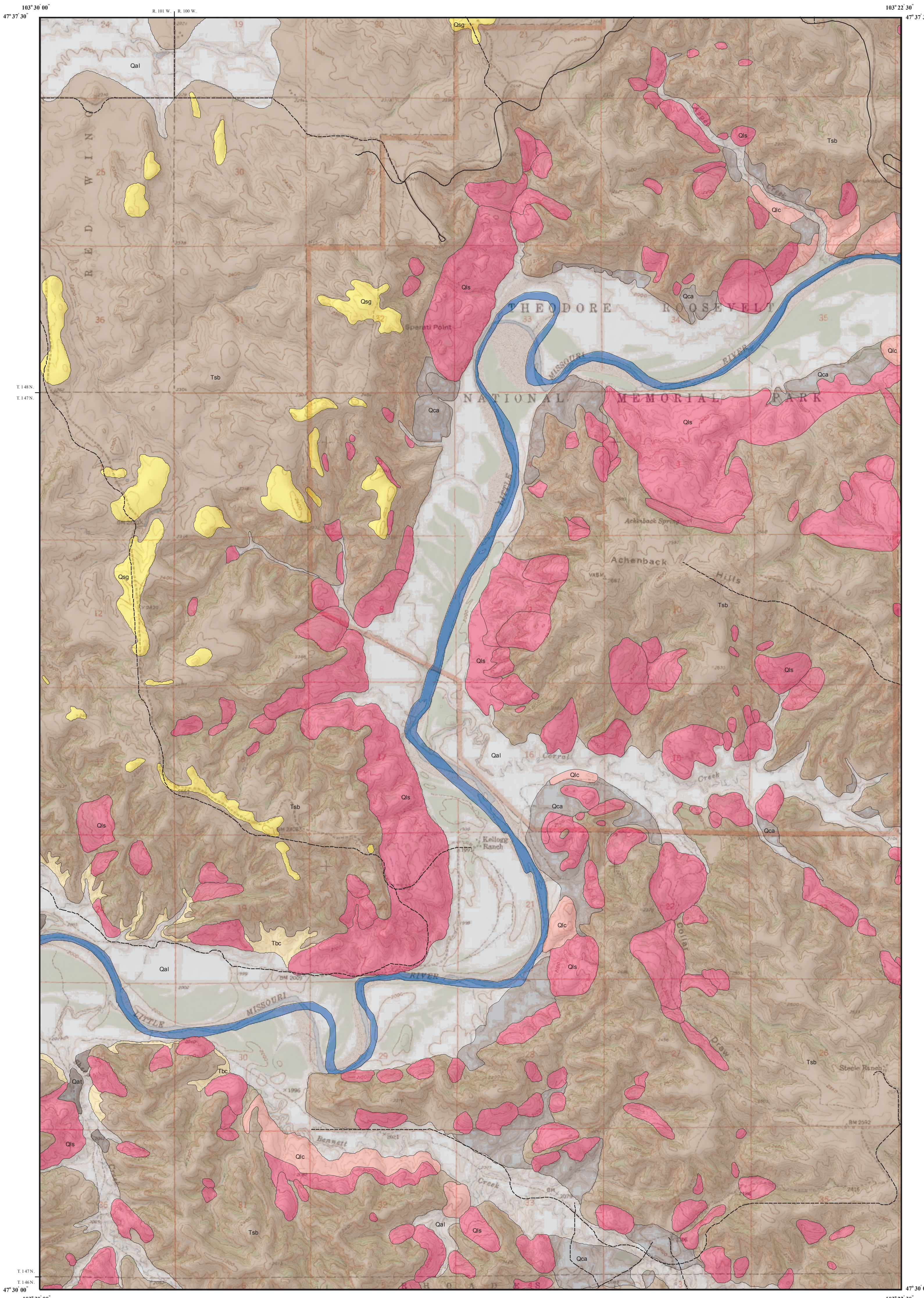
-  Water
-  Paved Road
-  Unpaved Road

Geologic Symbols

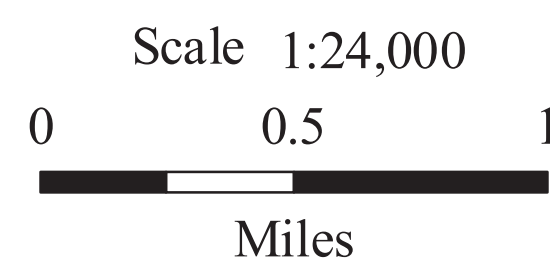
-  Known contact between two geologic units

Selected Reference:

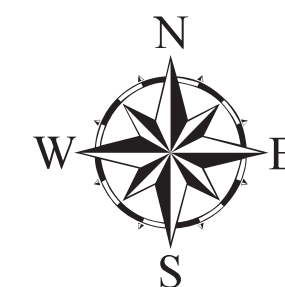
Biek, R.F. and Gonzalez, M.A., 2001, The Geology of Theodore Roosevelt National Park, Billings and McKenzie Counties, North Dakota: North Dakota Geological Survey Miscellaneous Series 86, 74 p.



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Lambert Conformal Conic Projection
Standard Parallels 47° 30' 00\"/>



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