

# Surface Geology

## Brantford NW Quadrangle, North Dakota

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### EXPLANATION

#### QUATERNARY SYSTEM

##### RECENT

##### OAHE FORMATION

##### Qos Pond and Slough Sediment

Dark, obscurely bedded clay and silt; in modern ephemeral ponds.

##### PLEISTOCENE

##### COLEHARBOR GROUP

##### Silt Facies

Insignificant amounts of this facies on this quadrangle.

##### Sand and Gravel Facies

River sediment. Moderately well-sorted, cross bedded sand and plane-bedded gravel, including sediment of meltwater rivers.

##### Qcrh Collapsed River Sediment

Faulted and contorted supraglacial sediment with hummocky topography.

##### Qcrf Flat Fluvial Plains

Flat-bedded sediment of nearly level plains and river terraces, commonly with braided channel scars, oxbows, and other relict markings; relief of 1 to 10 feet. "Tiffany Flats."

##### Qcer River-Eroded Glacial Sediment

Glacial sediment with flat to undulating topography resulting from stream erosion in the bottom of large meltwater trenches or over broad areas of till that have been washed by running water; overlain by a thin layer of fluvial sediment of the Cole Harbor Group or Oahe Formation in places.

##### Till Facies

Glacial sediment. Unsorted, unbedded mixture of angular, subangular, and rounded pieces of rock, gravel, and sand, generally in a stiff matrix of silt and clay; yellowish-brown to olive-gray in exposures depending on weathering intensity; contains discontinuous lenses of gravel and sand.

##### Qccu Undulating Surface With Numerous Kettles

Nonintegrated drainage, and abundant ice-disintegration features; well-developed washboard ridges. Local relief commonly less than 50 feet.

##### Qccg Collapsed Glacial Sediment

Supraglacial sediment with hummocky topography; areas of linear topography and ice-thrust topography interspersed; gently undulating with 1 to 2 degree maximum slopes.

#### Geologic Symbols

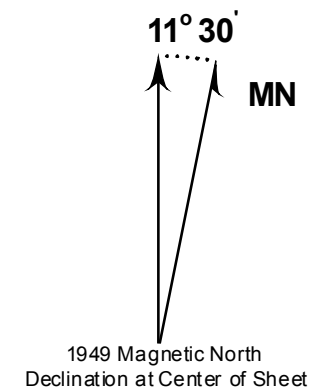
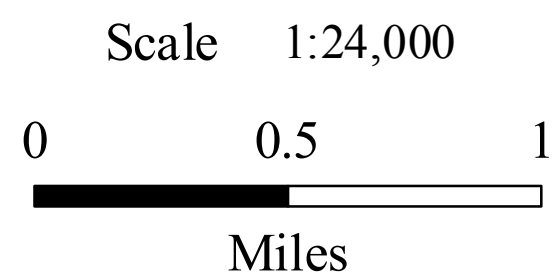
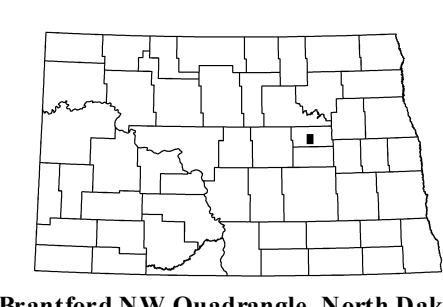
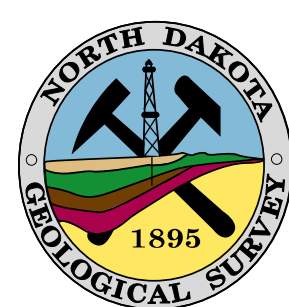
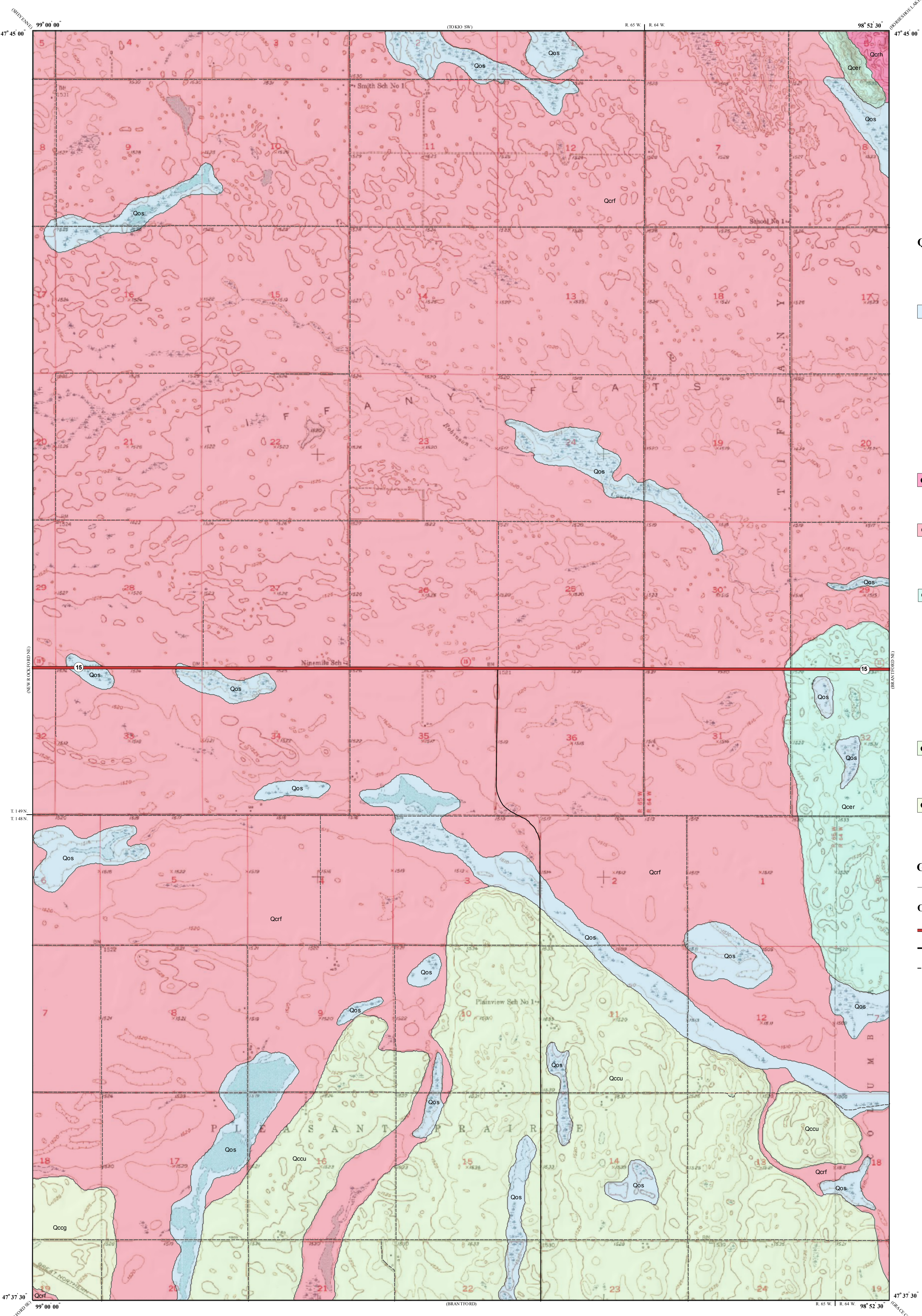
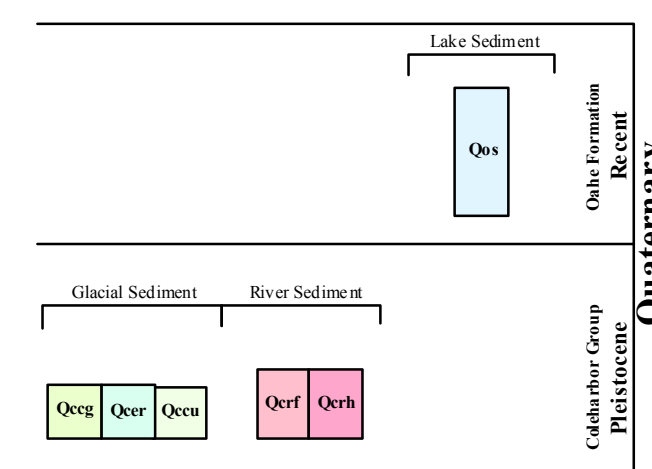
— Known contact between two geologic units

#### Other Features

— State Highway

— Paved Road

--- Unpaved Road



Lambert Conformal Conic Projection Standard Parallels 47° 37' 30" and 47° 45' 00"  
1927 North American Datum NGVD 1929  
USGS 7.5 Minute Topographic Map Contour Interval 5 Feet  
Road Layer Rectified to 2003 NAIP Digital Orthophoto