

# Surface Geology

## Lost Bridge Quadrangle, North Dakota

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2007

### EXPLANATION

#### QUATERNARY SYSTEM

##### RECENT

###### Qlsr **Landslide Deposits - Recent**

Variable mixture of strata and deposits that have slid to the base of steep slopes.

##### QAHE FORMATION

###### Qal **Alluvium**

Brownish gray to black sand, silt, clay, and lenses of gravel; flood-plain deposits along recent drainages. Includes lower terrace deposits. Typically less than 50 feet thick.

##### RECENT/PLEISTOCENE

###### Qls **Landslide Deposits**

Variable mixture of strata and deposits that have slid to the base of steep slopes.

##### PLEISTOCENE

##### COLEHARBOR GROUP

###### Qat **Terrace Deposits**

Five- to 20-foot-thick layers of sand and gravel (consisting of silcrete, chert, flint, agate, petrified wood, and siltstone found beneath flat to gently undulating slopes adjacent to many of the major creeks and rivers.

#### TERTIARY SYSTEM

##### MIOCENE/OLIGOCENE

###### Ta **ARIKAREE FORMATION**

Buff-colored tuffaceous sandstone, siltstone, and fresh water carbonate.

##### EOCENE

###### Tc **CHADRON FORMATION**

Sandy and pebbly mudstone and clayey sandstone.

##### EOCENE/PALEOCENE

###### Tgv **GOLDEN VALLEY FORMATION**

###### Camels Butte Member

Alternating beds of yellowish brown to brown, micaceous sandstone, siltstone, mudstone, claystone, and lignite.

###### Bear Den Member

Brightly colored, kaolinitic claystone, mudstone, and sandstone, typically overlain by a thin silicious bed (silcrete) or lignite.

##### PALEOCENE

###### Tsb **SENTINEL BUTTE FORMATION**

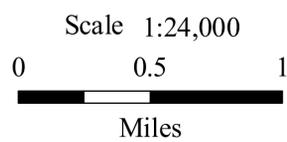
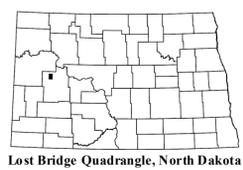
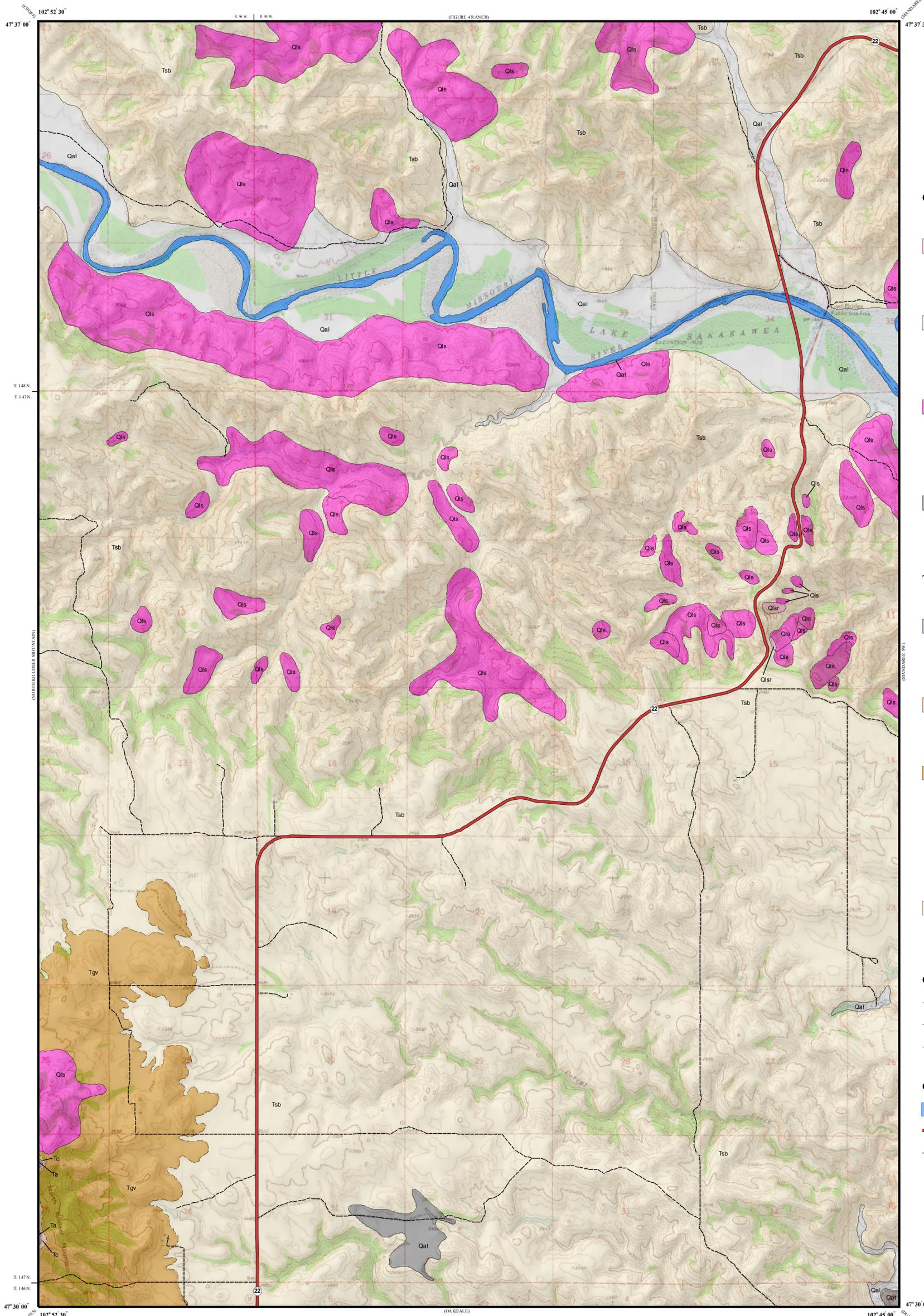
Alternating beds of grayish brown to gray sandstone, siltstone, mudstone, claystone, and lignite.

#### Geologic Symbols

- Known contact between two geologic units.
- - - Approximate contact between two geologic units.
- - - - Inferred (unknown) contact between two geologic units.

#### Other Features

- Water
- State Highway
- Unpaved Road



Lambert Conformal Conic Projection Standard Parallels 47° 30' 00" and 47° 37' 30"  
1927 North American Datum NGVD 1929  
USGS 7.5 Minute Topographic Map Contour Interval 20 Feet  
Road Layer Rectified to 2003 NAIP Digital Orthophoto

