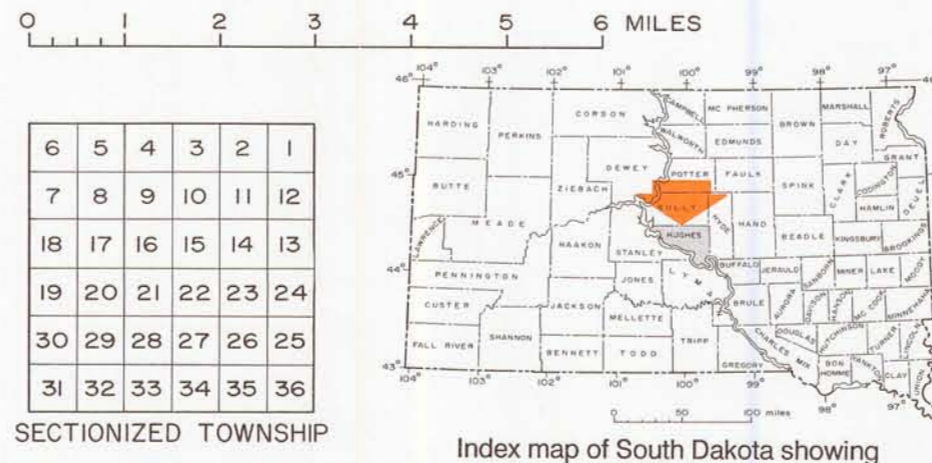
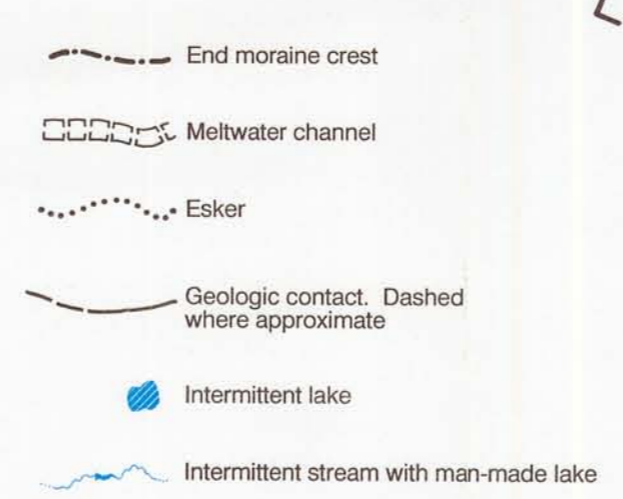


EXPLANATION

- HOLOCENE**
- Qm** Man-made Land Cut and fill for Oahe Dam.
 - Qal** Alluvium Silt and fine sand with lesser amounts of clay and medium to coarse sand; forms relatively flat flood plains.
 - Qc** Colluvium Poorly sorted, shale-derived sediment; may contain some drift; forms steep irregular slopes adjacent to valleys.
- QUATERNARY**
- Qwlot, Qwlot₁, Qwlot₂, Qwlot₃** Outwash, Terrace Predominantly sand with some gravel; forms flat to gently sloping surfaces. Terraces in the Missouri River valley: Qwlot₁ - lowest and youngest terraces; Qwlot₂ - intermediate terraces; Qwlot₃ - highest and oldest terraces. Isolated terraces marked with an X.
 - Qwlov** Outwash, Valley Train Sand and gravel; gently sloping surfaces; occurs discontinuously along glacial meltwater channels.
 - Qwloc** Outwash, Collapsed Sand and gravel, with lesser amounts of clay, silt and till; forms relatively flat surfaces with numerous small, closed depressions.
- PLEISTOCENE**
- Qwll** Lake Plain Bedded silt and clay; occupies flat surfaces in meltwater channels.
 - Qwite** End Moraine Shale-rich till with local concentrations of boulders on the surface and minor sand and gravel deposits; some linear features; moderate relief and well integrated drainage with some closed depressions.
 - Qwltg** Ground Moraine Shale-rich till; gently sloping surfaces with poorly to moderately developed drainage.
 - Qwlts** Stagnation Moraine Shale-rich till; flat to low relief with shallow closed depressions; poorly developed to internal drainage.
 - Qwita** Attenuated Drift Shale-rich till with some bedrock exposures; generally less than 50 feet thick; low to high relief reflecting the underlying bedrock surface; moderately to well developed drainage.
- CRETACEOUS**
- Kp** Pierre Shale Light- to dark-gray claystone; concretion-bearing; locally calcareous and siliceous; numerous thin bentonite layers. Isolated outcrops marked with an X.



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Plate 1. Surficial geologic map of Hughes County, South Dakota.