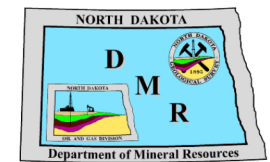




Offshore Glaciolacustrine Deposits of Glacial Lake Agassiz: The Brenna Formation in Cass County, North Dakota



Fred J. Anderson

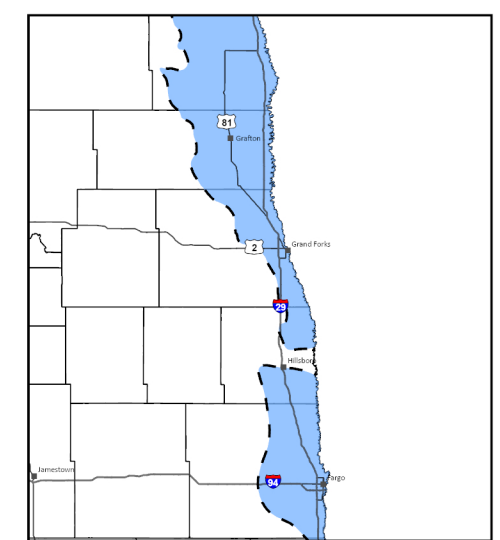
2023

DEPTH TO BRENNIA FORMATION

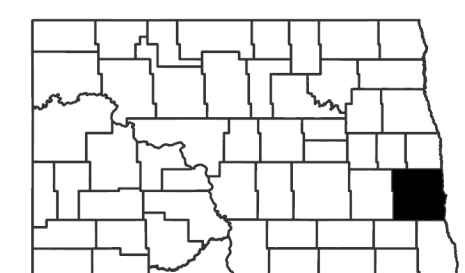
This map depicts the depth of the Brenna Formation in the shallow subsurface in Cass County. Depth to the top of the Brenna Formation is shown as colored contour intervals modeled from test hole, water well, and deep-foundation drilling data. The Brenna Formation was only deposited in the eastern part of the county and covers an area of 839 square miles (2,173 km²). It is more laterally extensive southwest of West Fargo and some what less extensive to the northwest of the city. The Brenna Formation generally occurs at depths of 10-20 feet (3.0 – 6.1 m) but may be as deep as 50 feet (15.2 m) northeast of Argusville.

Depth Contour (feet bls)

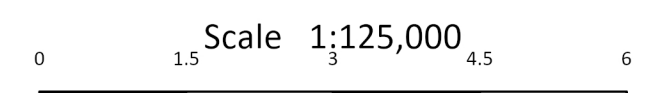
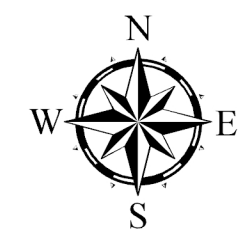
- < 10
- 10 - 20
- 20 - 30
- 30 - 40
- 40 - 50
- 50 - 60
- 80 >



Location and extent of the offshore lake clays of the Brenna Formation in the Red River Valley of North Dakota.



Cass County, North Dakota



Mercator Projection
Standard Parallel 46°37'30"N
North American 1983 Datum
Central Meridian 97°11'15"W

