UNIVERSITY OF MINNESOTA
MINNESOTA GEOLOGICAL SURVEY
Harvey Thorleifson, Director

DESCRIPTION OF MAP UNITS

UPPER CRETACEOUS

Kp **Pierre Formation**--Dark-gray shale; marine offshore sediment; as thick as 120 meters (400 feet).

Kn **Niobrara Formation**--Light-brown to dark-gray calcareous shale; marine offshore sediment; as thick as 75 meters (250 feet).

Kc **Carlile Formation**--Dark-gray shale; marine offshore sediment; as thick as 120 meters (400 feet).

Kg **Greenhorn Formation**--Dark-gray calcareous shale; marine offshore sediment; as thick as 45 meters (150 feet).

CRETACEOUS

K_u **Cretaceous**, undifferentiated

PRECRETACEOUS

preK_u **Bedrock**, preCretaceous, undifferentiated

SCALE 1:400 000

5 0 5 10 MILES

5 0 5 10 15 KILOMETERS

Digital base modified from ESRI compiled base information from GDT, U.S. Census Bureau, and the U.S. Geological Survey; digital base annotation by the Minnesota Geological Survey.

Lambert Conformal Conic Projection, 1983 North American Datum
1st std parallel - 33°, 2nd std parallel - 45°
Central meridian - 96°, Latitude of project origin - 45°

BEDROCK GEOLOGY OF THE FARGO-MOORHEAD AREA

by

Dale Setterholm and Robert Tipping

2005