

GEOLOGIC MAPS OF THE NORTH LIMB, COTTONWOOD COUNTY BASIN, JEFFERS-COMFREY AREA, MINNESOTA

A. Geologic Map of the Precambrian Rocks

EXPLANATION

Psu	Unnamed upper unit of coarse quartzite and grit
Pse	Informal unit E
Psd	Informal unit D (exposed) and lower units (not exposed)

Sioux Quartzite

Unconformity

Agu

Gneissic rocks, undivided.
Dominantly quartzofeldspathic gneiss with lesser quantities of amphibolite and granulite

- Strike and dip of inclined bedding
- Horizontal bedding
- Bearing and plunge of slickensides in fault zone
- Axial trace of anticline
- Inferred stratigraphic contact
- Structural form line, schematic
- Fault: dashed where inferred or poorly controlled. Arrows indicate sense of displacement
- Diamond drill hole

B. Outcrops of Sioux Quartzite and Observed Paleocurrent Directions

EXPLANATION

- Outcrop of Sioux Quartzite
- Paleocurrent direction inferred from the troughs of festoon cross-bedding
- Paleocurrent direction inferred from asymmetrical ripples on mudstone and fine sandstone beds
- Diamond drill hole

