



EXPLANATION

- Qal**
Alluvium
Semistratified deposits of sand, silt, and clay, humic, brown to black, in stream flood plains, lakes and ponds; 0-6 feet thick.
- Qco**
Colluvium
Chiefly reworked till, consists of brown to dark-gray clay with rock fragments, partly stratified, forms plain at foot of Coteau; 0-6 feet thick.
- Qwo**
Outwash
Stratified deposits of poorly sorted sand and gravel; occurs as terrace levels, may also underlie Qal in Firesteel Creek valley; 0-54 feet thick.
- Qwie**
End Moraine
Boulder-clay till, olive-brown to olive-gray, calcareous, compact, mostly blocky; contains carbonized wood in places, characterized by rolling to rugged topography; 0-215 feet thick.
- Qwee**
End Moraine
Same as above but older (see text reverse side of this map for discussion)
- UNCONFORMITY**
- Tpv**
Valentine Formation
Deposits of buff fossiliferous silt, sand, and clay; green siliceous sandstone; and green compact gravelly clay; crops out on eastern escarpment of Coteau; as much as 12 feet thick.
- UNCONFORMITY**
- Kp**
Pierre Shale
Gray to black, fissile to blocky, mostly fossiliferous marine shale; crops out in deep ravines cut into Coteau escarpment and in small tributaries of Firesteel Creek; maximum exposed thickness about 90 feet.
X small outcrop
- Ice-Marginal Channel**
Meltwater channel from which sand and gravel has been partly or wholly removed; locally occupied by alluvium
- Major Morainal Crest**
- Gravel Pit
- X BM 1900
Bench Mark
(monument showing exact altitude above sea level)
- △ Bates
Triangulation Station
(monument marking exact geographic location)
- House, School, Church
- House, School, Church (abandoned)
- Test hole
- Cemetery
- Intermittent stream
- Intermittent lake
- lake
- Geologic Contact
(dashed where approximately located)

RECENT

QUATERNARY

PLEISTOCENE

Early Wisc.

PLIOCENE

UPPER CRETACEOUS

CRETACEOUS

Late Wisconsin

TERTIARY

Geology by Fred V. Steece, 1961-1962
Assisted by James A. M. Meen, 1962
Richard Brown, 1961 Lynn Hedges, 1961
Vertical and horizontal control surveyed from
triangulation and level lines of Federal surveys
Drafted by Elizabeth H. Garnos

True North
Magnetic North
Approximate Mean
Declination, 1960



