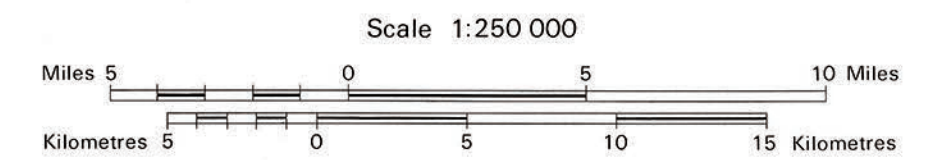


PROVINCE OF MANITOBA
DEPARTMENT OF NATURAL RESOURCES
WATER RESOURCES BRANCH

GROUNDWATER AVAILABILITY STUDY
VIRDEN AREA

BEDROCK GEOLOGY
FIGURE 4



TERTIARY

- 4** TURTLE MOUNTAIN FORMATION: grey, brown and yellow sand, silt, silty clay and clay; minor lignite.

CRETACEOUS

- 3** BOISSEVAIN FORMATION: grey, brown, green sandstone; minor siltstone and shale.

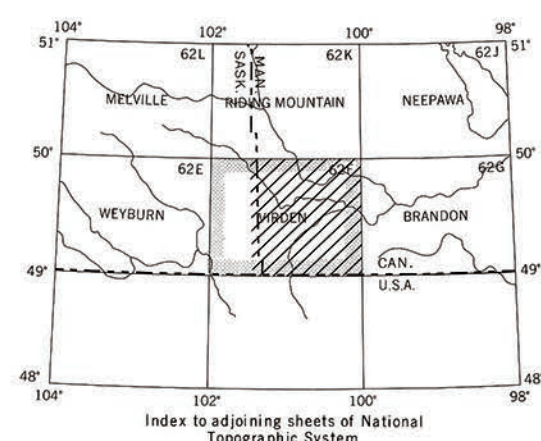
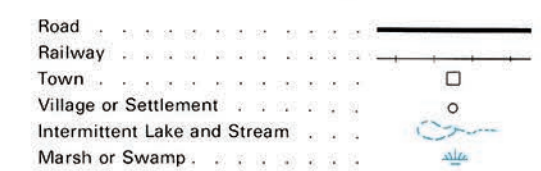
- 2** RIDING MOUNTAIN FORMATION:
(a) Coulter Member: light grey to buff clayey siltstone and shale.
(b) Odanah Member: hard grey siliceous shale.
(c) Millwood Member: soft greenish brown bentonitic silty shale.

- 1** VERMILION RIVER FORMATION: black, soft, calcareous or non-calcareous shale.

CONTACT BETWEEN BEDROCK FORMATIONS

Prepared by: R.N. Betcher, 1983.

MAP LEGEND



Magnetic declination 1966 varies from 14° 37' easterly at centre of west edge to 12° 18' easterly at centre of east edge. Mean annual change 2.0' westerly.

Base Map by: Surveys and Mapping Branch, Department of Energy, Mines and Resources, Ottawa.

Cartography by: Surveys and Mapping Branch, Manitoba, 1983.

