GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF MINES AND TECHNICAL SURVEYS

SHEET 62 G

LEGEND

CENOZOIC

14 — ***Valley slopes where more than 1000 feet wide:*** *includes colluvium and landslide material*

13 — ***Shallow swamp deposits:*** *muck and peat 2 to 5 feet deep*

12 — ***Alluvium:*** *flood plains and alluvial fans; poorly sorted sand, silt and clay. Includes channel fills, natural levees, and backswamp deposits near Portage la Prairie. Deposition takes place at present*

11 — ***Alluvial fills:*** *laminated silt and clay in the Assiniboine valley; poorly sorted, sandy, shale gravel in the Pembina valley; poorly sorted sand, silt and clay containing some peat in flat-bottomed gulleys north of the Assiniboine River, commonly overlain by swamps*

10 — ***Lag concentrate:*** *very thin deposits of boulders, sand and gravel overlying till or bedrock, coarse fraction of drift resorted by current or wave action. Includes old alluvium along Assiniboine River near mouth of Souris*

9 — ***Delta deposits:*** *gravel and coarse sand; also gravelly alluvial fans*

LAKE DEPOSITS

8 — ***Beach deposits:*** *gravel and coarse sand in ridges 3 to 10 feet high, underlain by till or silt and clay*

7 — ***Deltaic and offshore deposits:*** *sand, medium-grained, includes windblown sand, and some areas of coarse silt*

6 — ***Deltaic and offshore deposits:*** *silt, in some cases interbedded with sand or clay*

5 — ***Deep water deposits:*** *clay, massive, some silty clay*

GLACIAL DEPOSITS

4 — ***Outwash:*** *gravel, sand, and some coarse silt; well sorted, 3 to 10 feet thick, overlies till. Fine silty outwash is thinner and is included under ground moraine*

3 — ***Ice-contact stratified drift:*** *sand, gravel, and silt; sorting highly variable, forms end of moraine in area between Greenway and Notre Dame de Lourdes.* **3a**, *esker, sand and gravel ridges 3 to 15 feet high*

2 — ***Ground moraine:*** *till, ranging from sandy to clayey sandy, containing a few irregular bodies and lenses of silt and sand; locally overlain by a layer of clayey silt 1 foot to 3 feet thick*

1 — ***End moraine:*** *till, ranging from silty to sandy, with large bodies of ice-contact stratified drift, knobs and kettles are abundant*

Glacial grooves (generalized)
Streamlined hills, mostly rock-cored (generalized)
General trend of till ridges 3 to 20 feet high, mainly in areas of ground moraine (washboard moraine)

Geology by J. A. Elson, 1952

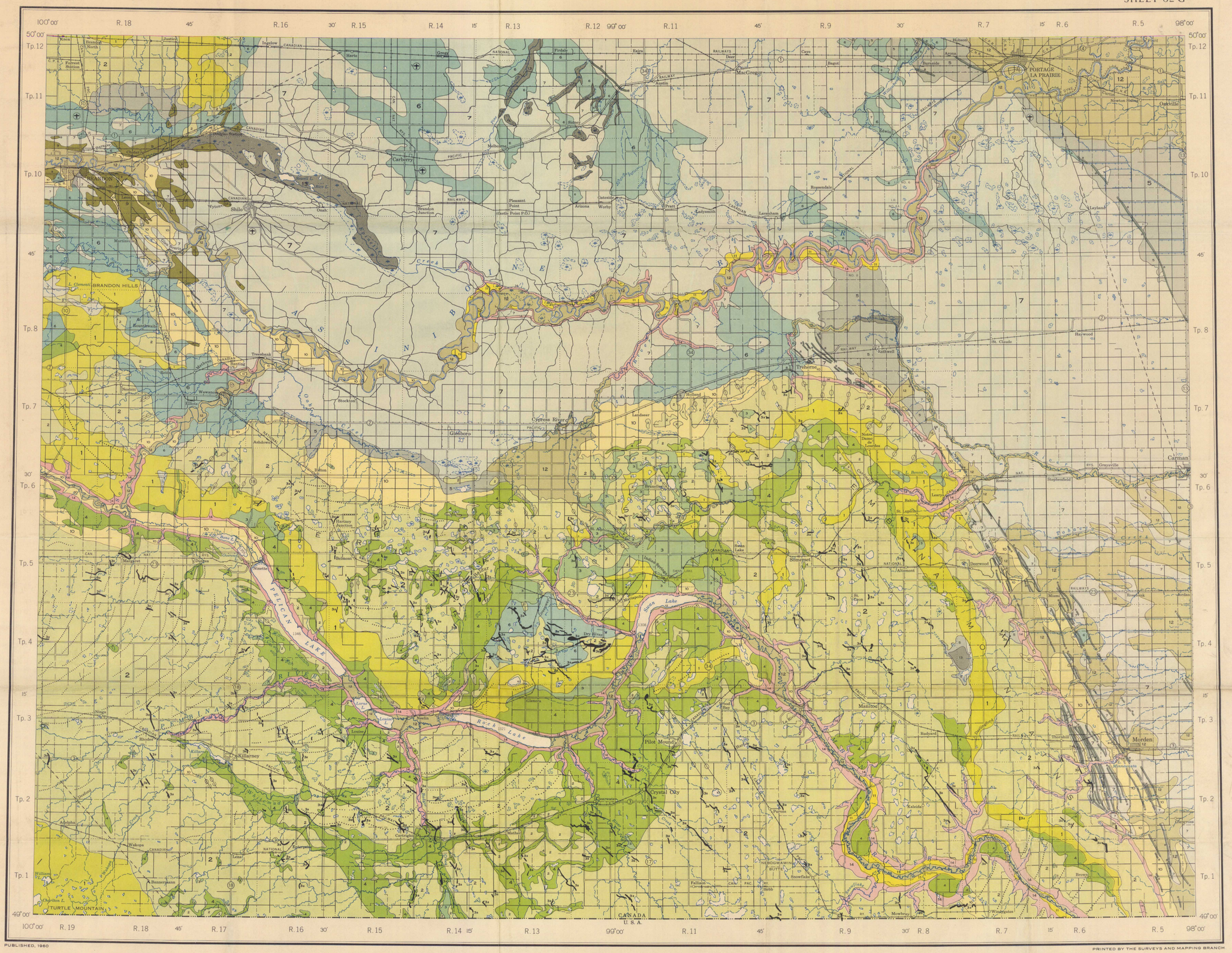
To accompany Geological Survey of Canada Memoir 300 by E. C. Halstead

Base-map compiled by the Surveys and Mapping Branch

Cartography by the Geological Survey of Canada, 1960

Air photographs covering this map-area may be obtained through the National Air Photographic Library, Topographical Survey, Ottawa, Ontario.

Approximate magnetic declination, 11° 07′ East



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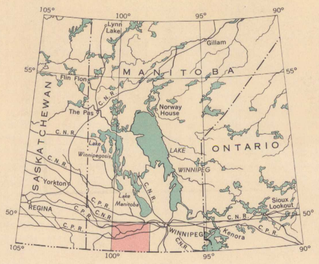

INDEX MAP

MAP 1067A

SURFICIAL GEOLOGY

BRANDON

WEST OF PRINCIPAL MERIDIAN

MANITOBA

Scale: One Inch to Four Miles = $\frac{1}{253,440}$

Miles 4 2 0 4 8 12

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REFERENCE

Main highway
Secondary road
Other road
Cart track
Trail
Railway
Abandoned railway
Power transmission line (along road)
International boundary
Surveyed line
Indian Reserve boundary
Intermittent lake and stream
Irrigation canal or ditch
Marsh
Height in feet above mean sea-level

1067A
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