

Geological Survey Department,
Canada.

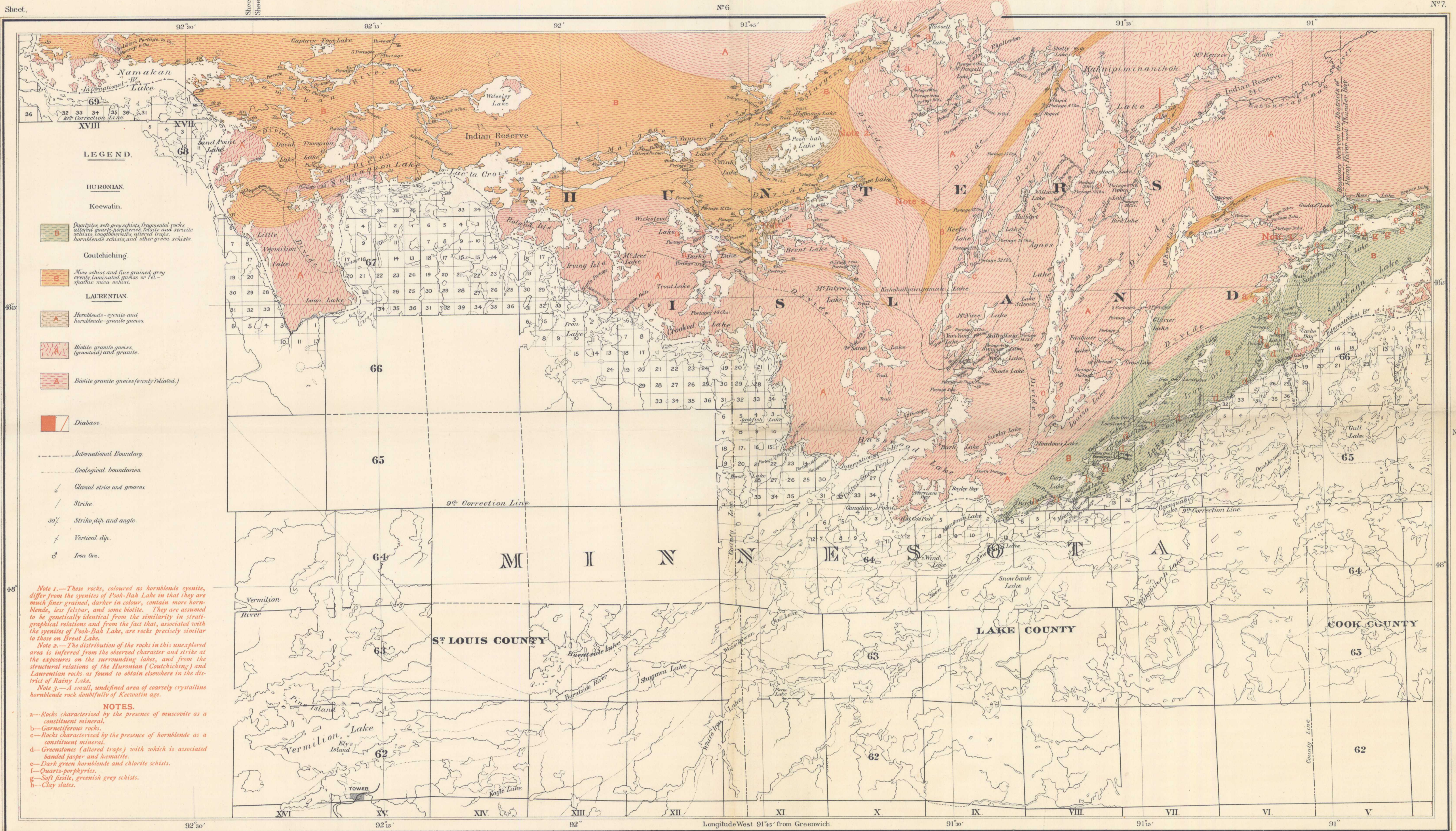
HONOURABLE EDGAR DEWIDNEY, MINISTER.

ALFRED R. C. SELWYN, C.M.G., LL.D., F.R.S., &c. DIRECTOR.

1890.

N^o 6.

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LEGEND.

HURONIAN

Kewatin.

b Quartzites, and greenish fragmental rocks altered quartz porphyries, felsite and sericite schists, amphibolites, altered traps, hornblende schists, and other green schists.

Goutchiching.

e Musc schist and fine grained grey evenly laminated quartz or Fe-schistose mica schist.

LAURENTIAN.

a Hornblende-syenite and hornblende-granite gneiss.

d Biotite granite gneiss (granulite) and granite.

f Biotite granite gneiss (coarsely foliated).

g Diabase.

c International Boundary.

h Geological boundaries.

i Glacial striae and grooves.

j Strike.

k Strike, dip and angle.

l Vertical dip.

m Iron Ore.

Note 1.—These rocks, coloured as hornblende-syenite, differ from the syenites of Pooh-Bah Lake in that they are much finer grained, darker in colour, contain more hornblende, less felspar, and some biotite. They are assumed to be genetically identical from the similarity in stratigraphical relations and from the fact that, associated with the syenites of Pooh-Bah Lake, are rocks precisely similar to those on Brent Lake.

Note 2.—The distribution of the rocks in this unexplored area is inferred from the observed character and strike at the exposures on the surrounding lakes, and from the structural relations of the Huronian (Goutchiching) and Laurentian rocks as found to obtain elsewhere in the district of Rainy Lake.

Note 3.—A small, undefined area of coarsely crystalline hornblende rock doubtfully of Kewatin age.

NOTES.

a—Rocks characterized by the presence of muscovite as a constituent mineral.

b—Carnotiferous rocks.

c—Rocks characterized by the presence of hornblende as a constituent mineral.

d—Greenstones (altered traps) with which is associated banded jasper and hematite.

e—Dark green hornblende and chlorite schists.

f—Quartz-porphyrites.

g—Soft fissile, greenish grey schists.

h—Clay slates.

Computed and drawn by S. Barlow, Chief Draftsman, and W. H. Smith, from surveys made by A. C. Lawson in 1885 and W. H. Smith in 1887-88-89 also by Dep^y of Indian Affairs, Russell, M'Dougall & Russell Civil & Mining Engineers, Port Arthur, David Thompson, Surveyor to the Boundary Commission, and Dep^y of Surveyor Gen^l Minnesota.

Mortimer & Co. Lith. Ottawa, Ont.

PROVINCE OF ONTARIO.

DISTRICT OF RAINY RIVER.

(Hunters Island Sheet)

Nat. Scale 1:250,000

Scale: 4 miles to one inch.

To illustrate Report by W. H. Smith, Part I, Annual Report Vol. V, 1890-91, Geologically surveyed by A. C. Lawson, M.A., Ph.D. and W. H. Smith.

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C
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