

Geological Survey of Canada.

Alfred R.C. Selwyn F.R.S. & Director.
1880.
1.N.W.

Nº1.

S.W.

NOTE 1.

The beds of the Lower Carboniferous embrace the so-called Perry Sandstone group. In position they overlie unconformably the Devonian beds of Mace's Bay, and though they in places hold fossil plants of Upper Devonian type, yet from their stratigraphical position and their resemblance to recognized Lower Carboniferous rocks in other parts of the Province, they are now generally regarded as constituting the base of the Lower Carboniferous formation in this area.

NOTE 2.

This area embraces the so-called "Pale Argillite" group, of earlier reports. No fossils have been found in Charlotte Co., except at one locality, at Cox's Brook, on the Magaguadavic River, where Mr. Matthew found fragments of a species of *Lepidodendron*; but further east, in Queens Co., the extinction of these beds contains numerous graphitic films, which may represent impressions of fern leaves. This formation also contains the so-called anthracite mines at Belas Basin, Mace's Bay.

NOTE 3.

The rocks of this group comprise those formerly known as the "Dark Argillite" series, see Report 1870-71. No fossils have been found in this area, but as they are unconformably overlaid by fossiliferous Silurian strata on the south, and by probable Devonian beds on the north, they are, for these reasons, as well as from the lithological resemblance of the slates, to supposed Cambro-Silurian beds further north, assigned provisionally to that horizon. They include black carbonaceous shales, slates, actinolite and hornblende schists, with gneisses and other metamorphic rocks. It is possible, however, that in this group are comprised, towards its northern portion, beds of Silurian age, though their exact limits cannot be determined. On lithological considerations a large part of the area might be pre-Cambrian.

NOTE 4.

The area colored pre-Cambrian embraces the three divisions of the Huronian of Report 1870-71, the Kingston, Oldbrook and Coastal. From the lithological resemblance of the rocks of each of these three divisions, it has been found impossible to separate them with any approach to accuracy. Their pre-Cambrian age has, however, been definitely established. A possible exception occurs, however, in Deer and Campobello Islands, where, associated with the Pre-Cambrian, are slates and conglomerates which may possibly be of Cambrian, Cambro-Silurian, or Silurian age, but the areas are limited and their exact separation very difficult. A great part of these rocks, also, are of eruptive and irruptive felsite, amygdaloid, diorite, &c. It is in this group that the principal deposits of copper ore are found.

NOTE 5.

The rocks colored Laurentian embrace the Upper Laurentian of Report of 1870-71, as well as the lower or fundamental gneiss and syenite. The limestone of this group are principally in the vicinity of Mace's Bay, along the county line; but they are largely covered over by Lower Carboniferous and Devonian sediments.

NOTE 6.

This area embraces not only granite, but syenite and diorite, both coarse and fine, especially in the parishes of St. David and St. Patrick. These different rocks shade into each other in various places, and the separating of the syenite from the granite and diorite is rendered almost impossible both on this account and from the wooded character of the country, by which the rocks are concealed. It is from this belt that the celebrated red granite of St. George is taken, and the supply of stone suitable for building or polishing is practically unlimited.

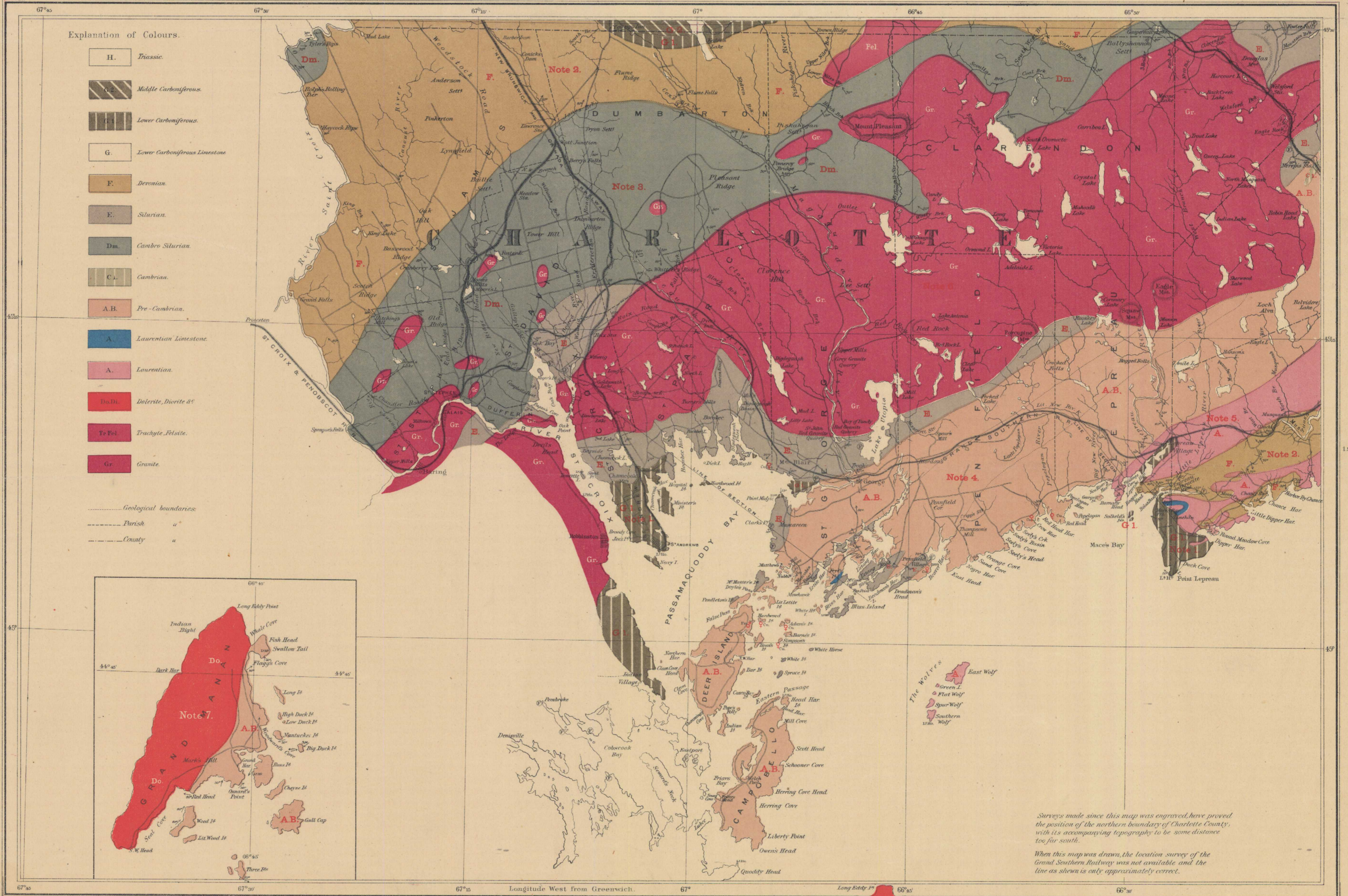
NOTE 7.

The rocks of Grand Manan Island consist of traps, (dolerite, amygdaloid, basalt, &c.) of supposed Triassic age, which occupy the western side of the Island, and metamorphic sediments, presumably pre-Cambrian, on the east. Among the traps at several points soft red sandstones are found, but their area is small.

Explanation of Colours.

- H. Triassic.
- Lower Carboniferous.
- Lower Carboniferous Limestone
- F. Devonian.
- E. Silurian.
- Dm. Cambro-Silurian.
- C.A. Cambrian.
- A.B. Pre-Cambrian.
- A. Laurentian Limestone.
- A. Laurentian.
- Do. Di. Diorite, &c.
- Tr. Fel. Trachyte, Felsite.
- Gr. Granite.

- Geological boundaries
- Parish
- County



Compiled and drawn by R. WELLS, assisted by Wallace Broad, from Plans made by the Admiralty, Crown Lands and Geological Surveys

To illustrate Reports by Messrs. Bowley, Matthew & Ellis, 1871-79.

PROVINCE OF NEW BRUNSWICK.
Nat. Scale 253430.
Scale 4 miles to one inch.
1 5 10 15 Miles
Dips. 5° Fe. Iron. 5 Co. Copper. * Mn. Manganese. † Ag. Pb. Argentiferous Galena. Blue cross-bars. Opssum. ‡ Sph. Sulf.

NOT TO BE TAKEN FROM LIBRARY
NE PAS SORTIR DE LA BIBLIOTHÈQUE



143