

Geological Survey of Canada

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1900

2. S.W.

N° 1.

RLETON

N.W.



- Explanation of Colours and Signs
- Recent Deposits
 - M 3 (a) Fresh Water
 - M 2 (a) Even Surface
 - M 2 (a) Rolling Surface
 - M 1 Boulder Clay
 - Pleistocene
 - See fossils from inland deposits
 - Glacial striae
 - Rivers
 - Forest covered Areas
 - Old growth
 - Recent growth

Note: Heights in feet above mean tide level from barometric readings, thus 193' barometrically ascertained 450'

Note: The International Boundary from St. Croix passes through the Chipewiticook Lakes to Monument Brook.

NOTE 1. M 3 (a)
The areas occupied by formations of this class occur chiefly in the counties of Sunbury and York. River-flats of considerable extent skirt the St. John westward from the limits included in the sheet and follow the Oromocto, Nashwaak and Kewick rivers. In the valley of the Magaguadavic similar deposits are found at Brookway and Venter settlements, also along the stream connecting the two Magaguadavic lakes, etc. These flats form some of the best agricultural lands of the province.

NOTE 2. M 2 (a)
The largest portion of the surface deposits of the protection sheet is assigned to this division. Although a part of the area included in the sheet along the valleys of the St. John and its affluents, the Oromocto, Kewick and Nashwaak, lies below the 220-foot contour line, which represents the extreme height of the marine deposits along the coast of the Bay of Fundy, nevertheless, it has been placed in the class of inland deposits, as no fossils have been found in any of the beds composing it in the interior. The 220-foot contour line is, however, laid down on the sheet, and the elevations given show the height and extent of the country above it.

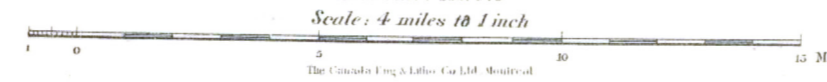
NOTE 3. M 1.
The boulder-clay very seldom comes to the surface except on the higher grounds, but the whole area of this sheet seems to have been glaciated. The general trend of the ice movement was southward, diverging in a few places to the east, in others to the west. A distribution of boulders carried southward is traceable everywhere, but more particularly in the vicinity of the granite areas. The boulder-clay in some localities forms good soil, though usually damp and clayey, and not infrequently stony.

The barometric altitudes are based on those of the railways, and a few on the level of the St. John River below Fredericton. The glacial striae are all referred to the true meridian.

Compiled and drawn by Wallace Broad, assisted by W. M. Innes, from plans made by the Crown Lands Department, N.B. and the Geological Survey. Hill features and Railway lines added by R. Chalmers and W. J. Wilson.

1. S.W.
SURFACE GEOLOGY
PROVINCE OF NEW BRUNSWICK
Fredericton Sheet

Nat. Scale: 1:50,000
Scale: 4 miles to 1 inch



Accompanying Part M Vol. XII (N.S.)
Geologically surveyed by R. Chalmers