

Geological Survey of Canada

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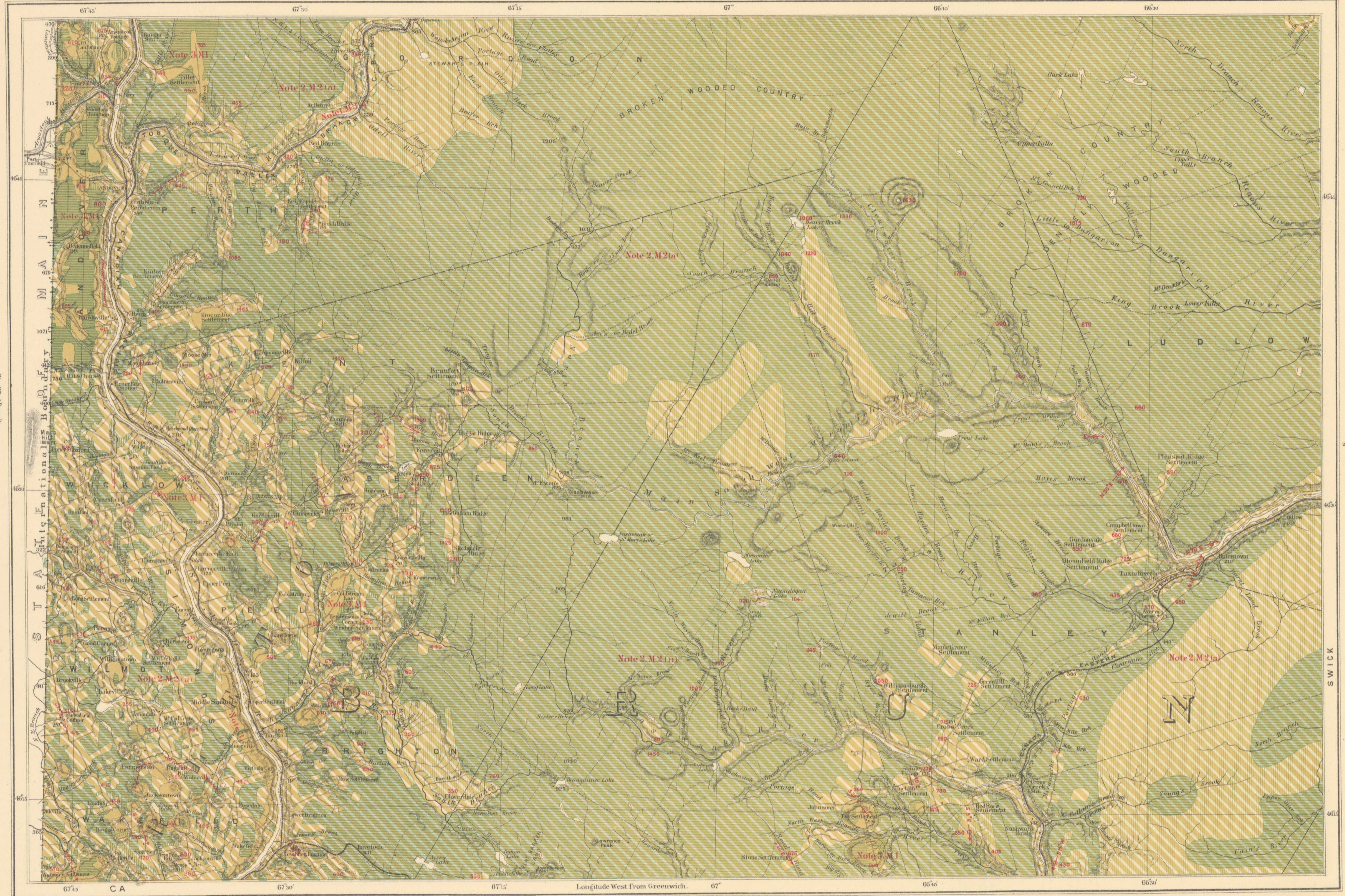
1900

2 N.W.

696

N° 2.

S.W.



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

Note: Heights in feet above mean tide level from barometric readings taken 1902 barometrically ascertained 350'

NOTE 1. M 3 (a)
The formations which come under this head are river-delta and peat bogs, and these are of very limited extent here. The former are found in the valley of the South-west Miramichi below Botstown and along the Nashwaak in the vicinity of Cross Creek. They also occur in the St. John valley, but are too narrow to be shown on the map. All the islands are formed of these fresh-water alluvium. In the Tobique valley, dats of greater width have been laid down at Arthurette and the mouth of the Wapashewan. The one at Arthurette is really an ancient lake bottom. (see report).

NOTE 2. M 2 (a)
The deposits classed under this note cover by far the largest portion of the area. The surface is, for the most part, uneven or undulating, occasionally rising into hills or ridges, especially in the central and northern parts where it reaches an elevation of 1200 to 1400 feet above the sea. The country is well drained by rivers and brooks. The soil is varied in character, usually deep, and composed largely of stratified materials resting on boulder-clay, or decomposed rock *in situ*. In the valleys of the St. John, Tobique, Southwest Miramichi, and especially in that of the Nashwaak, the land is of good quality for agricultural purposes and thriving settlements are located in these places. Except along these valleys, however, the larger part of the area included in this sheet is still under forest, and is the scene of extensive lumbering operations.

NOTE 3. M 1.
Terraces of great beauty and perfection skirt the St. John River in this part of its course, rising sometimes in a succession of three, four and five steps along its banks. These afford evidences of the former height of the river above its present bed and of the erosion and transportation which the valley-drift has undergone since the glacial period.

Boulder-clay appears to underlie the beds referred to in the above notes, almost everywhere, and comes to the surface in numerous places, but only the larger areas are of sufficient extent to be mapped. The materials constituting this deposit, whether clay, gravel, or boulders, are altogether local. In some places where the boulder-clay is not too stony and where the surface is rolling or uneven, and affords escape for the drainage waters, the soil is good. This appears to be the case in the vicinity of Andover, and along the St. John valley from Flanagan's Hill to Victoria Corner, etc. The system of striations prevailing here is, generally speaking, from north to south, or from northwest to southeast. But in the valley of the Southwest Miramichi there seems to have been a northeast flow, the watershed between the two large rivers causing the ice to follow the slopes on either side, at least to some extent.

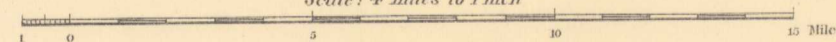
The barometric heights are all based on those of the railway stations, and the courses of striae are referred to the true meridian.

Compiled and drawn by W. M. Jones, from Railway, Crown Lands and Geological Survey Plans, and from Roe & Colby's map of Carleton County. Hill features and Railway lines added by R. Chalmers and W. J. Wilson.

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

SURFACE GEOLOGY
PROVINCE OF NEW BRUNSWICK
Andover Sheet

Nat. Scale: 1:253,440
Scale: 4 miles to 1 inch



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Whitford