

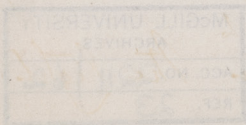


GEOLOGICAL SURVEY OF CANADA

(Museum and Office, 76, St. Gabriel Street) MONTREAL.

18

Between the outcrop of the metamorphic series to the south east and the great fault to the north-west the Quebec group (Levis Saenger Siller) constitutes a great crumpled synclinal  $\nabla$  along the south east edge of this trough the Levis Limestone Conglom<sup>ts</sup> <sup>associated beds</sup> crop out with a constant north westerly dip - The fact appear to be all well described in Sir William's old report (1850.) - and how they could have led to the conclusions as indicated by the maps <sup>& later reports</sup> is quite incomprehensible. I am not yet certain whether any unconformity exist between the micaceous & metamorphic series and the true Quebec group - If any exists, however, it will probably be distinctly <sup>north east</sup> indicated not very far from the right.



Lelwyn

July 1877

bank of the St. Lawrence River. This I hope  
to ascertain in the course of a few days.

Yours sincerely  
Alfred H. Hodge

Principal Dawson L.D. I.R.S.  
Littlefield

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(Museum and Office, 76 St. Gabriel Street) MONTREAL.

Chaudiere Riv. 15<sup>th</sup> Aug<sup>th</sup> 1877

My dear Dr. Dawson

I have just rec<sup>d</sup> your letter of 8<sup>th</sup> Inst. It is a thoroughly and hopelessly wet day I will answer it at once - As regards Mr. Sill, I should be very glad to have him on the Survey if the vote admitted of any increase in the present strength of the staff, which unfortunately it does not. - As regards the N.S. and Cape B. rocks I have little doubt now that my first impression of them in 1874 was correct

and that they are the equivalents of the Lower Silurian contemporaneous igneous volcanic series of Britain - (North Wales, &c.) feldspathic traps, trap-ashes and bedded diorites. The relations of the Crystalline serpentine limestones & magnetics of the Bras du Lake require further investigation.

As to the structure in this region I have now no doubt whatever. The "metamorphic" Quebec group are certainly below the Twin rocks and at some point, not yet ascertained, between this and the Lemisconata Lake road they are overlapped by the Upper Silurian which thence north easterly rest on the fossiliferous rocks of the Quebec group.

