

McGILL UNIVERSITY ARCHIVES
ACC. NO. 2211/26
REF. 60

Burley
Fredericton, March 5th.

My dear Sir,

Our university examinations which have been in progress for several days have prevented my giving earlier attention to your favor of the 17th ult.

I am much indebted to you for your trouble in the determination of the Sunbury fossils. They have not yet been returned to me, nor have I yet received the list from Mr. Selwyn, but I have asked that it be incorporated with the Report by Mr. Billings.

I am not aware of the existence of any animal fossils with the plant beds at Lepreau. The examination of these was principally made by Mr. Mat-
thieu. As to the relations of these to the

other formations of the vicinity, much uncertainty still exists. The gray *cladoxylon* sandstones of Lepreau Basin, containing the fossil plants, are separated from the red conglomerates and sandstones of Point Lepreau by a wide belt of rocks, consisting of red argillites, ^{petrosilex} claystones and porphyries, which we suppose to belong to what we have termed the Siluro-Devonian series, and to be more ancient than the plant-bearing Devonian strata. Further study, however is required before the relations of these strata will be fully understood.

The red sandstones and conglomerates of Point Lepreau present the same features as those of St Andrews, but so far as we have examined them they have failed to yield any plant remains. They contain however great numbers of simple and branching cylindrical fossils, two or three inches in length, which may be fucoïdal, besides various other markings some of

which appear to be footprints. An attentive search might reveal some interesting animal remains in these beds. There are no strata in this vicinity referable to the Lower Carboniferous, unless these sandstones be regarded as belonging to that formation.

You inquire about the occurrence of Sigillariae and Stigmariae in our Coal Measures. I have some excellent specimens of both (from Grand Lake, Richibucto, Sussex and other points) but had no room in the box to send them on. It is singular that they have never been included in the lists of our coal plants.

With many thanks for your kindness in the determination of these latter, I remain

yours very truly

L. W. Bailey

Dr. J. W. Dawson L.L.D.

Montreal.

(over)

The relations of the beds at Lepprean, so far
as are known to us, are indicated in our
manuscript Report, now in the hands of
Dr. Hunt.