

Coll. Inst. Hamilton Ont. Mar. 17/79

Spencer
March 17/79

My Dear Sir

Allow me to thank you for the Paper on Genesis of Plants, which I read with much interest; also the structure resembling that of Stromatopora in the L.J. Geol. Society. I have as yet done very little with the Corals that I collected last summer, but I have not forgotten my promise. I have been collecting information for another paper on the Geology of this region. All our limestones are dolomitic, I have made the quantitative analysis of a large number and also the microscopic structure. Except in the fossils themselves the rocks do not show any organic structure, but consist mostly of the double salt of Lime and Mag. Calc. crystallized in about 12 per cent (average) of earthy, or silicious matter as the case may be.

Both on the North and South sides of the Dundas valley I have found the superficial rocks striated in directions parallel to the great excavations. I was informed by Mr Williams M.P. who sunk a well to the depth of 1009 feet, some ten years ago, that at 290 feet from the surface (= 22.5 feet below present level of Lake Ontario) they first left the boulders and gravel. Now Burlington Bay is scooped out of Medina Shale, and at a short distance east (one or two miles) we come on the Medina Shale just below the surface; and also to the west. What can this mean except that this Dundas valley seven or eight miles long, and four or five wide at greatest breadth was excavated to a depth of 238 feet below present lake level. It has subsequently been filled up by Hudson River Boulders, and the present lake beach is also made up of pebbles of the same material. Also, there is a bed of fresh shell marl on one side of the large Marsh just above surface of lake

I am inclined to think a glacier must have
there first of this distinctive orientation, certainly
it has been ascribed by me a certain, but
from observing the appearance and with
as high as you get above the sea in Mount Royal
Cantonment and I believe should you give the length of
mire, I can scarcely credit the embankment of
see extending so far north as this. But I am
hoping to write up the subject. There the most
interesting monuments, and hope with the fine
weather I visit all the facts that I can, and get
the estimate made, so as to work up the geology of the
head of Lake Ontario. I have not finished my
Geology. They have no other up. They work
in Chemistry is equal to the great general interest
I have, and I have a very good glass in order
to make things which I can see to the bottom
mathematically light, heat, electricity & magnetism. I
Boston &c. I consider the general lines of fact in
Boston for different observations in America
and there has been a week, and
now those the amount of the largest quantities
checked on the city being a course in geology, making
to get a systematic knowledge of principles of
Geology, that he may be able to better judge for himself
the geological - Geological questions of the day. It
to write and finish my Geology. But I hope to finish
the description work of the next week. I have
the June No. of Nat. I have vol. 1 & 2, 3 & 4, 5 & 6
Palaeont. of N.Y. also Palaeont. of Ohio & the Palaeont. of Virginia
of them. N.Y. Mr. Whitney's Palaeont. works, and some
others, but I cannot get vol. II. Palaeont. of N.Y. the
Nat. Hist. Society has an extra set of Nat. Hist. of N.Y. It
is not complete for nature and vol. II of Palaeont. of N.Y.
one there. Mr. Whitney wanted me to find a Palaeont.
in the article. I wonder if they would sell me vol. II or the
Palaeont. is not complete. I have the first edition, but I thought
some of the same might be of some interest.

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