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NOTES ON SOME FOSSILS FROM THE TRENTON OF HIGHGATE SPRINGS VERMONT NEAR THE CANADIAN BOUNDARY LINE.

By HENRY M. AMI.

In the Spring of 1893, in Company with Dr. R. W. Ells of the Geological Survey of Canada, I had occasion to examine the fossiliferous rocks occurring in that most interesting and classic region about the east shores of Missisquoi Bay, both north and south of the international boundary line.

The geological structure of this district had been carefully studied and described by the late Sir William Logan and the late Mr. E. Billings and further contributions to the geological history of this district were published in 1881 by Prof. Jules Marcou* and later by Prof. C. H. Hitchcock in an early number of the Bull. Amer. Museum of Natural History, New York City.

On page 855 of the "Geology of Canada," Montreal, 1863, fig. 444—Sir William Logan gives a "section at Highgate Springs, Vermont" indicating clearly the various anticlinal folds and other flexures and faults of that locality. The relation of the Utica, Trenton, Bird's Eye and Black River, and Chazy formations to one another are therein indicated and described whilst the fossils which characterise the formations are mentioned in the text.

It is not my purpose in this paper to discuss the various problems which centre around the "Quebec Group" and "Taconic" controversies at this point nor yet to combat or assist in proving the theory of "colonies" of Barrande supported by Marcou, but simply to give a list of the species of fossils collected by Dr. Ells and myself at Highgate Springs from the limbs of the denuded Franklin House anticline and flexures of the Trenton formation.

*Bulletin de la Soc. Géol. de France, Extrait, Paris, 1881.