

HOUSE OF COMMONS, OTTAWA, 29th March, 1884.

The select Committee on Geological Surveys met this morning, Mr. HALL in the Chair. EDWARD J. CHAPMAN, Esq, of Toronto, was called and examined.

*To the Chairman :*

I have been for thirty-one years professor of mineralogy and geology in the University of Toronto, and during the last five or six years I have acted as professor of mining geology and as saying in the School of Practical Science, Toronto. Before I came to Canada, I was professor for two years in the London University College, England, and I acted there also as a mining engineer. I might also say that I am a Doctor of Philosophy of Goegen, Hanover, and some few years ago the University of Queen's College honored me by giving me the degree of LL.D, although I did not belong to the Presbyterian body, and I am the author of some five or six works on these subjects, published within the last few years.

Q. Where was your geological education obtained?—Chiefly at Clansthal and various parts of England; also slightly in France; and of course to a great extent on this continent. In thirty-one years one always learns.

Q. During your residence in this country, in addition to your study of geological studies you have devoted a good deal of attention to practical geology and the mineral resources of the country, have you not?—I have made a considerable number of reports myself, which have been printed with maps on the mineral lands and deposit in various parts of the Dominion.

Q. What mineral section of the Dominion have you visited?—Chiefly the North Hasting's section, comprising Peterborough and Victoria, in connection with the iron industry, and also the north shores of Lake Superior and Lake Huron, as well as Cape Breton and Nova Scotia. I have published several works on mineralogy, and one work on the practical minerals, and how to work them, and another on the minerals of Central Canada.

Q. You have kept yourself informed, I suppose, as to the methods under which Geological Surveys are conducted both in this and other countries?—Yes.

Q. Did you know the late Sir William Logan?—Quite intimately and each work that he published. Of course I have not the opportunity of making surveys of late, being anchored a great part of the year in Toronto, so that my hands are to a great extent tied. I can only do laboratory work, &c. To show the number of people that come to me, I kept a record for one year (1882), and had 216 applicants, to whom I gave information, free of charge, about economic minerals. In North Hastings I examined some eight or ten properties, and almost immediately after I went to Echo Lake, near Lake Huron, for some Ottawa people, I think. When I got back, and before I had time to write the report, an American Company got me to go between Haliburton and Bancroft. They are now trying to get help from the Government to build a railway there. In Peterborough and Victoria I examined as many as thirteen different properties, collecting minerals and analyzing them. I once went to Sherbrooke, a good many years ago, to look at some copper deposits, and I also visited the Bay of Fundy for a gentleman in Halifax the north shore of the Grand Manan.

Q. Will you state to the Committee your impression as to the present system and administration of the Geological Survey of Canada, as compared with its system and administration under Sir William Logan?—I did not quite approve of the system as followed by Sir William Logan, and I have often told him so, but he said it was forced upon him, and he could not help it. I think, however, it is decidedly retrograding, from a practical point of view. Most of the reports now are purely scientific, whereas the Survey was clearly instituted to convey to the Canadian people practical information respecting the mineral resources of the country. Now they are almost all purely scientific, and really they are not intelligible to ordinary people, although of considerable interest to geologists. I may add that I have derived from them very great benefit in my position as teacher of these subjects, and more speci-