

FIELD OPERATIONS OF THE GEOLOGICAL SURVEY IN 1915

In the Maritime Provinces.

The Geological Survey is placing several parties in the field to carry on geological investigations in the Maritime Provinces during the summer of 1915. The economic possibilities of a number of districts will receive attention.

Mr. E. R. Faribault, who has made a special study of the gold-bearing series of Nova Scotia, will continue the geological mapping of this series in Queens and Shelburne counties.

The geological mapping of the vicinity of St. John, New Brunswick, will be completed by Dr. A. O. Hayes. Dr. Hayes will make an examination also of the productive coal measures of New Glasgow, Nova Scotia, and vicinity, and will commence the detailed mapping of this area on a scale of 200 ft. to 1 in.

Mr. W. J. Wright will complete the work for the geological map of the Moncton area and will continue his studies of the oil-bearing shales of the railway belt between Moncton and St. John.

Under the supervision of Dr. L. Reinecke an investigation will be made in southern New Brunswick of materials suitable for road metal and the locations of these will be indicated on maps.

Mr. C. L. Cumming will continue his examination of the igneous rocks of the vicinity of St. John; Mr. W. A. Bell will carry on palaeobotanical studies near New Glasgow, N.S., and some localities in Nova Scotia will be visited by Dr. E. M. Kindle, the invertebrate palaeontologist.

In Ontario and Quebec.

The Geological Survey is continuing its geological investigations in Ontario and Quebec during the summer of 1915 by placing a number of parties in the field in each province. Studies of the economic possibilities of the better known sections will be carried on, and exploratory work will be conducted in the more remote sections.

An investigation of the asbestos deposits will be conducted by Dr. R. Harris, who will map the country in the vicinity of Thetford Mines on a scale of 1 mile to 1 inch.

Dr. M. E. Wilson will continue the geological examination of the Buckingham area, paying particular attention to the deposits of mica, graphite and apatite. Mineralogical investigations in the neighborhood of Templeton will also be carried on by Dr. Auguste Ledoux.

An investigation of the mineral and other natural resources of the Lake St. John region will be conducted by Mr. J. A. Dresser. This will include the Palaeozoic basin surrounding the lake and the deposits of iron ore in the region to the east. Dr. J. A. Bancroft will complete the examination of Mount Royal tunnel.

Exploratory work will be carried on to the south and east of James Bay. Dr. H. C. Cooke will make a geological reconnaissance of the Waswanipi river basin, and Mr. T. L. Tanton will continue the reconnaissance of the Harricaw river, special attention in both cases being given to areas of economic importance. A survey of the east coast of James Bay will be made by Mr. W. E. Lawson, of the Topographic Division.

Ornithological investigations will be carried on by Mr. P. A. Taverner. Perce will be again visited, and about a month will be spent on Magdalen islands dur-

ing the bird migrations. A visit will probably be paid to Anticosti island and the north shore of the Gulf of St. Lawrence, where work will be done in conjunction with Dr. Charles Townsend, who is making an intensive study of the ornithology of Labrador and the north shore of the Gulf.

Dr. W. H. Collins will continue his work on the correlation of the pre-Cambrian formations north of Lake Huron, and will start the areal mapping of the Sudbury district and an investigation of the nickel-copper deposits.

The study of the silurian formations of southwestern Ontario and Manitoulin island will be continued by Dr. M. Y. Williams.

Mr. W. A. Johnston will complete the mapping of the Orillia, Brechin, Kirkfield, Beaverton, Sutton and Barrie sheets, after which he will carry on special soil surveys in the district about Ottawa. Soil surveying, which includes the classification and mapping of the surface soils, is a new activity of the Geological Survey, and the resulting maps and reports will be great aids to the agriculturist seeking allotments of land and to the Government in securing the utilization of different classes of land to the best advantage.

A study of the pleistocene geology in southwestern Ontario, between London and Lake Erie, will be undertaken by Mr. J. Stansfield, who will give special attention to such economic deposits as clays, sand and gravel, road metal, building stone and materials for lime and cement.

Triangulation of the Sudbury district will be done by Mr. S. C. McLean, and a topographic map of the same district will be made by Mr. E. E. Freeland.

The economic possibilities of certain clay and shale deposits in both provinces will be examined by Mr. J. Keele, and their suitability for the manufacture of structural material, paving brick, sewer pipe, etc., investigated.

Dr. L. Reinecke will study and map materials suitable for road metals between Ottawa and Prescott and south of Montreal. This work is of very great importance in connection with the construction of better highways.

Mr. F. H. S. Knowles will carry on studies in physical anthropology among the Iroquois Indians.

Archaeological investigations will be conducted in Ontario. Mr. W. J. Wintemberg will continue the excavation of the old Indian village site at Roebuck, Grenville county, after which an examination will be made of certain prehistoric mounds on the north shore of Lake Ontario.

In Western Canada.

Field operations by the Geological Survey will be continued in western Canada during the summer of 1915, and particular attention will be given to our economic resources in minerals, both metallic and non-metallic.

Dr. E. L. Bruce will continue his investigations of the ore deposits of Amisk (Beaver) Lake district in northern Manitoba and Saskatchewan, and Mr. A. McLean will complete the mapping of the Pembina Mountain area near the U. S. boundary.

A geological exploration of the Churchill River area from South Indian lake to Hudson bay will be made by Mr. F. J. Alcock.

Mr. Charles Camsell will examine the geology at the east end of Lake Athabaska and look into the reported occurrence of silver at Fon du Lac. The latter part of the season will probably be spent by Mr. Camsell in making an exploration of the region traversed by the