

valley of the Bonnechère River to the vicinity of Douglas. To the north of this valley the rocks are crystalline of the old series, comprising both limestones and gneisses as well as frequent masses of granite. Similar rocks occur to the south of the railway, but approaching Douglas it skirts the south side of a large outlier of the Black River formation and several quarries are here located in these rocks. In these the characteristic fossils are quite abundant and a careful study of the several strata will amply repay the collector. To the north of Douglas village also these rocks are well exposed, and will yield good results.

From Douglas to Caldwell the rocks are of the old series, being well exposed near the latter station. Occasionally pyroxenic rocks are seen with these, and traces of various minerals were observed at several points, but not in quantity to be of economic importance. But little exploration has yet been done in this area for minerals as yet, and it is possible that subsequent search may be more successful. The road passes about a mile to the south of Eganville which is on the Bonnechère River; but before reaching Eganville station it crosses another very considerable outlier of the Black River formation, which extends northward to the river and also presents a good field to the fossil collector. At Eganville itself the Chazy also appears, and the presence of several small faults along the valley of the stream tends to complicate the structure and make the study more interesting. To the south of Eganville, at Clear Lake, a very interesting mineralogical field is presented, and several islands in this lake have afforded a rich collecting ground for mineralogists both from the United States and Canada for some years, and some very rare and valuable minerals have been obtained. A very interesting outlier of Utica Shale was found several years ago by the officers of the Geological Survey on the north slope of the mountain which rises from the south shore of the lake, at an elevation of about 800 feet above the sea.

The valley of the Bonnechère west of Renfrew, and nearly to Douglas, is occupied by heavy deposits of clay. These must