

The principal folds which affect the strata near Ottawa can be readily recognized. They occur both to the east and west of the city. Near Rochester street, on the line of the Canada Atlantic railway, one of these is seen to the north of the track, which disturbs the regular dip of the limestone to some extent but affects only the strata of the Trenton, as these limestones continue west as far as the road south from Hintonburg. On the line of the Ottawa and Parry Sound railway, however, a short distance west of this road, there are several breaks in the strata, the dips increasing suddenly from five to sixty degrees. The first of these affects merely the Trenton limestones, but a second disturbance, a few yards further west, is more pronounced and brings the Trenton abruptly against the Black River limestones. The vertical extent of this fault cannot however be very great. It is however, of interest, from the fact that it can be traced for some miles both to the north and south. Thus if prolonged on a course of south twenty degrees east, magnetic, it will reach the faulted area at the Hog's Back, where however, several other breaks are seen, while on the other hand if traced northward, it can be recognized in the several streets of Hintonburg, and Mechanicsville, from which it can be followed across the Ottawa, through Tetreauville and out to Fairy Lake, the line connecting all these points being quite straight. At all these points the Trenton is brought into contact with the Black River. At Tetreauville, several other minor faults can be easily seen in the area between the Aylmer road and the river, some of which affect the Trenton beds only, as is the case with the disturbance along the post road into Hull at the pitch of the hill near Tetreauville. This disturbance can also be seen on the line of the Electric railway near the junction of the tracks to south of this village.

The portion of the Ottawa River between the foot of the Little Chaudiere rapids and the railway bridge shows a considerable breadth of disturbed strata. The broken character of the Trenton beds in this direction can be readily recognized among