

as it is also sometime called, varies from next to nothing to twenty feet or more in thickness in different places. They are extensively developed about Ashburnham Hill, Gilmour's Mills, near the Hog's Back, etc., occupying their lower and regular position at the bottom of the Post-Tertiary series in Upper Town, Centre Town and Stewarton, cropping out in the rear of the City Hall, on the east side of the canal, and ever keeping in a normal position. This "till" is thence very generally distributed in beds of varying thickness, in the area included in a curve drawn from the New Militia Stores on the canal, along Sussex street up to St. Patrick street, then produced on to the bridges over the Rideau river, pretty nearly in a line with the curve which Sussex street there describes, and across to New Edinburgh through the Rideau Hall grounds, to a small extent, where these deposits thin out markedly, and continuing the line through Beechwood, in Gloucester, on in a southeasterly direction, we have a horse-shoe curve, in which are included vast accumulations of material left us by this Ice Period. But to come back to the *moraines*:—there are, besides these hard coherent masses of "boulder clay," large aggregations of more or less uniformly sized boulders held very loosely together, and form a prominent feature of the county. At Gilmour's Mills there is a good example of one of these whilst there has already been pointed out in the "Geology of Canada," 1863—already cited—that a number of zones or belts of boulders cross the Ottawa at different places near the city, one of which a few miles below Ottawa produces a shoal on account of which the navigability of the river at this point becomes dangerous and has obliged the Government to erect a lighthouse. These are what are termed "*morainic belts*," and are prominent features to consider.

There are a number of other particulars respecting which the detailed notes obtained from the excavations that have been carried on in our streets, though bearing immediately on this subject, cannot be included in the present exposition of the subject.

(To be Continued.)