

5

10

11

365 27

Reprinted from THE OTTAWA NATURALIST, Vol. XXIV, Feb., 1911, without change in paging. Published Feb. 11, 1911]

PRELIMINARY NOTES ON THE "CHAZY" FORMATION
IN THE VICINITY OF OTTAWA.*

BY PERCY E. RAYMOND.

The strata which lie between the Beekmantown and the Black River in the Ottawa Valley have been referred to the the Chazy, principally on account of their stratigraphic position. Their character and distribution have been described in the "Geology of Canada," 1863, pp.123-130, and in more detail by Dr. Ells in reports accompanying the various maps covering the region.

The fauna of this formation is unlike the fauna of the typical Chazy of the Champlain Valley in New York and Vermont, and its extension in Canada, and the writer has recently begun some studies at various places between Ottawa and Montreal, with the hope of finding the reason for this change. The present paper is a preliminary one, prepared for the purpose of showing the lithological characters and the range of the principal fossils in the formation near Ottawa.

Since the first description of the formation two members have been defined. The lower portion consists of sandstone and shale, and the upper portion of limestone. The two members have been mapped separately by Dr. Ells, and their distribution in the vicinity of Ottawa is well shown on his map of the region. At the base of the formation are layers of coarse-grained conglomerates and sometimes arkose, lying on the fine-grained dolomites of the Beekmantown. The top of the formation does not appear to have been definitely defined, but it would seem from the maps and descriptions that all the limestone up to the black, lumpy, cephalopod-bearing beds of the Black River were included in the Chazy.

In the vicinity of Ottawa both the sandstone and limestone are fairly well exposed, but no one exposure presents a good

*Published by permission of the Director of the Geological Survey of Canada.

1911