

TALCUM AT MADOC, HASTINGS COUNTY, ONTARIO*
By M. E. WILSON

HERE are not many materials that are more generally used, or with which everyone is more familiar, than talcum yet probably few of those who use it know that talcum, or talc as it is known to

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mineralogists, is a mineral, or that the largest known single deposit of talc suitable for talcum powder in America occurs near the village of Madoc, in Hastings county, Ontario, and that all or nearly all talcum prepared in Canada is obtained from this deposit.

There are several occurrences of talc in the

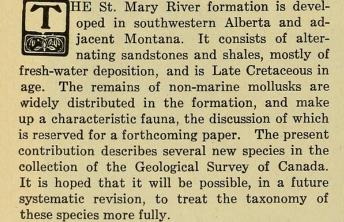
Madoc district but the principal mass, that on the Henderson and Connolly properties, has roughly the form of a huge east-west-trending spoon lying with its upper or concave side to the north. It is 1100 feet long in a straight line and 1300 feet long measured along its crenelations. It ranges from 5 to 65 feet wide and has been followed to a depth of 300 to 400 feet. rock in which the talc occurs is dolomite but adjoining the deposit and crossing it in places is a zone (or dyke) of madocite, a rock consisting chiefly of brown tourmaline. About 1000 feet to the south of the deposit there is an extensive mass of granite which has thrust its way into the dolomite. It is probable, since talc is a magnesian silicate and dolomite contains magnesia, that at the time the granite mass was intruded, silica from the granite ascended along a fracture now occupied by the madocite and by a chemical

reaction with the magnesia of the dolomite formed tale

The talc is a soft white glistening flaky material that can be scratched with the finger nail. For use as talcum powder it is ground to a fine flour-like powder that will pass through a 200-mesh screen, that is, to a size that will permit over 177,000 of the ground particles of the talc to occupy an area of one square inch without overlapping. There are two mills for grinding the talc at Madoc, one that of the George H. Gillespie Company, which owns the Henderson mine (Figure I), at the Canadian National Railway station in Madoc village, and the other that of the Canada Talc Company Limited on the Connolly property. The total value of the tale, so far produced from this deposit, is about three and one quarter million dollars. The talc mines lie on the southeast outskirts of Madoc village and only half a mile south of the new Ottawa-Sarnia highway.

NEW SPECIES OF MOLLUSCA FROM THE ST. MARY RIVER FORMATION OF ALBERTA¹

By LORIS S. RUSSELL



CLASS PELECYPODA FAMILY SPHÆRIIDÆ

Sphærium mclearni, sp. nov.

Fig. 1

Type.—Geological Survey of Canada, No. 6791; impression of the interior of right? valve, from St. Mary River beds on north side of Oldman ("Northfork") River, in section 11 or 12, township 10, range 2, west of 5th meridian; F. H. McLearn, 1914.

Description.—Shell of medium size for the

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genus, broadly ovoid in outline, approximately equilateral, rather convex. Beak situated at midlength, rather prominent. Dorsal margin nearly straight, subangular at each extremity; anterior and posterior margins truncated, a little obliquely; ventral margin broadly convex, most prominent behind midlength, and rounding upward at either extremity. Lateral teeth two in number in front and behind, delicate, compressed; cardinal teeth unknown. Surface apparently with fine lines of growth. Length of holotype, 8.6 mm.; height, 7.7 mm.

Remarks.—This species apparently is a true Sphærium. The prominent beak, abbreviated length, and rather tumid form of shell will serve to distinguish S. mclearni from other equilateral species with which it might be confused.

Sphærium livingstonensis, sp. nov.

Fig. 2

Type.—G.S.C. No. 6792; a right valve from St. Mary River beds on Oldman River, in section 11 or 12, township 10, range 2, west of 5th meridian, near Livingstone post office, Alberta; F. H. McLearn, 1914.

Description.—Shell moderately large, thin, very convex, elongate and inequilateral. Beak moderately prominent, situated at about one-quarter of shell-length from anterior extremity. Anterior



Wilson, M. E. 1932. "Talcum at Madoc, Hastings County, Ontario." *The Canadian field-naturalist* 46(4), 79–80. https://doi.org/10.5962/p.339363.

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DOI: https://doi.org/10.5962/p.339363

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