

Out the only fossils collected are a few casts of a *Unio* which are not sufficiently perfect to be identified. A few fragments of Unios and other fresh water shells were noticed at some other localities, but no specimens were collected.

The supposed new species of *Unio* from near the mouth of the Old Man River may be described as follows :

UNIO ALBERTENSIS. (N. Sp.)

Plate 1, fig. 1.

Shell very inequilateral, strongly compressed at the sides and thickest near the mid-length, so that the outline of the closed valves as seen from above is regularly lanceolate: lateral outline transversely subelliptical: length about twice the maximum height: height almost exactly twice the greatest thickness. Anterior and posterior extremities both rounded at the margin, and of nearly equal breadth: anterior side very short: posterior side considerably elongated, about three times as long as the anterior: ventral margin and superior border almost straight and nearly parallel for the greater part of their length,—the former rounding upwards obliquely and rather abruptly, and the latter sloping downwards in an equally abrupt and obliquely convex curve, at each end. Beaks very small and inconspicuous, placed about half way between the centre and the anterior termination of the valves.

Surface concentrically striated: test rather thin: characters of the interior unknown.

Length, seventy millimetres: maximum height, thirty-six mm.: greatest thickness, eighteen mm.

Upper Belly River, Alberta, N. W. T., seven miles above the mouth of the Old Man River, R. G. McConnell, 1881: one nearly perfect specimen with the test preserved on both valves and entirely free from the matrix.

(3.) FROM THE ST. MARY RIVER SERIES AND LOWER PORTION
OF THE LARAMIE GENERALLY.

In the southern portion of the district included in the geologically-coloured map of the region in the vicinity of the Bow and Belly Rivers, the Laramie, on lithological grounds, is clearly separable into three subdivisions, as described in Dr. G. M. Dawson's report already referred