

calcareous bands in the Niobrara shale of Manitoba, and contain foraminifera, oysters, gasteropods, &c.

A few miles lower down the stream another outcrop of hard gray mottled shale was observed. It contained, besides the little calcareous dots representing foraminifera, fragments of fish bones, and a few specimens of *Ostræa congesta*, and was thus precisely similar in general appearance to the Niobrara shale of North-Western Manitoba.

The presence of this foraminiferous horizon, with its association of other sossils, would go to confirm Mr. McConnell's conclusions that these lower beds of the La Biche shales are of Niobrara age.

The Pelican sandstones and shales were not closely examined, but as they are evidently poor in fossils, Mr. McConnell having found none in them, they would in that respect, as well as in position, correspond closely with the Benton shales of Manitoba, in which fossils are very rare.

In the Grand Rapids sandstones, at Grand Rapids, a large ammonite was seen, which seemed to be clearly *Hoplites McConnelli*, but it was found impossible to get it out.

An Burnt Rapids the interesting glauconitic band described by Mr. McConnell as occurring in the Clearwater shales (which are everywhere very arenaceous) was carefully examined, and found to be very similar to some rather persistent green bands in the upper portion of the Dakota sandstone along the banks of Red Deer river, and in exposures in the adjoining area of North-Western Manitoba, and the whole bank had very much the general appearance and character of many of the Dakota beds.

At the foot of the bank the following fossils were collected, some of which had already been collected by Mr. McConnell from the same vicinity : *Ostræa congesta*, *Camptonectes* sp. a, *Modiola* sp. a, *Nucula* like *N. Coloradoensis*, Stanton, *Yoldia* sps. a and b, *Callista tenuis* ?, *Protocardia boreale* ?, *Panopæa* sp. a, *Chemnitzia* like *C. Coalvillensis* Meek, *Actæon* sp. a, a gasteropod of uncertain affinities and a conical tooth like that of *Teleosaurus*.

Eleven miles lower down the stream the Clearwater shales were again searched for fossils and the following were found :