of Cretaceous age, and in describing them Mr. McConnell gives a section as follows :

| | | |
|---|---|---|
| La-Biche Shales, upper | 700 | Montana. |
| La-Biche Shales, lower | 225 | |
| Pelican Sandstone | 40 | |
| Pelican Shales | 90 | Colorado. |
| Grand Rapids Sandstone | 300 | |
| Chearwater Shales | 275 | |
| "Tar Sands" | 220 | Dakota. |

The upper parts of the La Biche shales are thus correlated with the Montana terrane, which corresponds to what is usually known as the Fox Hills and Pierre formations in most of the reports of the Geological Survey of Canada. The lower portion of the La Biche shales, the Pelican sandstone and shales, the Grand Rapids sandstone and the Clearwater shales, were correlated with the Colorado (Niobrara and Benton) terranes, while the "Tar Sands," in which no fossils were found, were provisionally classed with the Dakota.

The observations which it was possible for the writer to make were chiefly confined to the examination of a few horizons in this section and to the collection of fossils at occasional localities, and while they do not add anything to the accuracy of the section in itself, they may add something to our knowledge of the correlation of the beds with those along the Manitoba escarpment in western Manitoba, and they besides indicate the existence in this rather remote northern region of a Dakota fauna of distinctly marine type.

For the provisional generic or specific determination of the fossils, thanks are due to Mr. J. F. Whiteaves, Palæontologist to the Geological Survey, but since many of the species, though determinable, are as yet undescribed, letters of the alphabet have been added to them to designate them more exactly, where it is necessary to speak of their range through different beds.

Sixteen miles below the mouth of La Biche river the Cretaceous shales contain, along with crystals of selenite, many rounded calcareous grains, apparently foraminifera, associated with *Ostræa congesta*, *Baculites ovatus* and fragments of a small gasteropod and of a large aviculoid. They also contain bands of nodules of limestone, many of which are mottled like the