

*Camptonectes* sp. a, *Yoldia* sp. a, *Callista tenuis*?, *Panopæa* sp. a, *Dentalium* sp. a, *Lunatia* sp. , *Hoplites* like *H. McConnelli*, but with much stronger ribs.

At Boiler Rapids, where the "Tar Sands" first crop out from beneath the Clearwater shales, many masses of rotten ferruginous limestone were lying on the beach, apparently derived from the top of the "Tar Sands." From these were collected *Pecten* sp. a, "large, four inches high, and higher than broad, nearly smooth, one valve convex, the other flat" (Whiteaves). A small gasteropod, and a small ammonite. perhaps a form of *Hoplites McConnelli*.

At middle rapid a large number of fragments of ferruginous limestone were lying on the beach, derived from bands in the "Tar Sands." From these were collected specimens of fossil wood-*Pecten* sp. a, *Camptonectes* sp. a, *Inoceramus* sp., *Modiola* sp. a, *Cytherea* or *Cyprina* sp., *Panopæa* sp. a, *Dentalium* sp., *Hoplites McConnelli*, and fragments of large dinosaurian bones.

At the head of the bend above Crooked Rapids, a thin band of ferruginous limestone outcrops at the very base of the Tar Sands and from it were obtained a number of specimens of *Pecten* sp. a, and fragments of a minute gasteropod.

From the list of fossils above enumerated it will be seen that the fauna of the arenaceous Clearwater shales continues downwards into the conformably underlying "Tar Sands," and as far as could be determined from the few traces of fossils seen in the Grand Rapids Sandstone, it also contains essentially the same fauna.

It is to be noted, that the fauna is marine, and not fresh water, as in the original Dakota of the States to the south.

In lithological character, also, as well as in stratigraphical position, all these beds are very similar to the Dakota Sandstones of Western Manitoba.

The palæontological evidence thus appears to show that it is necessary to modify Mr. McConnell's correlation of the Cretaceous of the Athabasca river to the extent of taking all the beds below the base of the Pelican Shales out of the Colorado Group, and of grouping together the Grand Rapid Sandstone, the Clear-