

locality and their occurrence was noted as rare for this part of the river.

The ridge, which forms the eastern boundary of the delta-filled lake above noted, is uneven on its summit and seems to be formed of morainic deposits of varying thickness heaped upon the comparatively even floor of limestone. Exposures of the underlying rocks are wanting where the river cuts through it, but farther to the north on the small island at the north end of the Indian reserve ten feet of horizontal beds are exposed. They are light coloured and, similar to those on Cormorant lake, of the Niagara horizon. On the north side of the river the ridge is higher than any part of it that is visible to the south. The Indian reserve includes the western edge and highest of an irregular hill or ridge running to the north-east. North of this and parallel to it, another ridge runs from north of Watchi lake to the south-western border of Cormorant lake. North of that again another ridge follows the western side of the valley of Cowan river. There is no doubt that south of the Saskatchewan river similar ridges combine to form a strip of high ground to join that which is north of Red Deer river. An outlying hill belonging to the same series was observed on the east side of Cormorant lake. Glacial deposits.

The lowest gap in the ridge is that at the outlet of the river. Here the stream has worn a channel of considerable depth. On the south side of the plot of ground on which the dwelling belonging to the mission stands, is an old channel, the bottom of which is now at about the level of the ordinary range of high water. The amount of erosion since the river left this channel has been considerable and I am informed that the house mentioned above has been moved three times to prevent its being undermined. Evidence of erosion.

The following extract from Mr. Otto Klotz's report of 1885 bears on the same subject: "The action of the water in the course of time is well illustrated here. Forty years ago a lad could throw a stone from the banks of the parsonage across the river where it is now fourteen chains wide. Within a few years an island upon which the Hudson's Bay Company's powder magazine was kept, has disappeared. The banks where formerly houses of the company stood (in front of the present post), have been washed away. The same fate is rapidly approaching the parsonage close by." This has since been moved.

On the western bank of this island where the banks are scarped a section of fifteen feet of till is shown. This consists of light-gray un-