

is of the same uneven character as that of the uncovered, glaciated country to the north. Similar contacts may be seen inland a short distance, near the head of the lake; and on Gunflint river the Laurentian gneiss, in low *roches moutonnées*, appears partially encircled by the Animikie rocks.

On the north side of North lake there flows in a creek at the bottom of a deep gorge, which cuts down through 200 feet of flat Animikie strata to the basement of Laurentian gneiss upon which they rest; and the basement is distinctly *roches moutonnées*. Similar conditions are observable two miles up the creek which flows into the east end of North lake, and on Sand lake, where escarpments of Animikie strata overlook and appear to overlie a hummocky surface of Laurentian gneiss. The same is true of the escarpments in the vicinity of Little Gull lake.

To the north and northeast of Little Gull lake is a group of five small steep-sided, flat-topped hills, known as the Outpost hills, which are outliers of the Animikie, capped as usual with a sheet of columnar trap. The distance which separates them from the main area of these rocks varies from one to four miles. This space is occupied by a very hummocky and *roches moutonnées* stretch of Laurentian gneiss which maintains the general level of a line extending from the base of the Animikie on the face of the escarpment to the base of the same series, where it rests on the Laurentian at the foot of the Outpost hills. The writer has been over the ground between the escarpment and the hills; and Mr. E. D. Ingall, of the Geological Survey of Canada, who has examined the hills carefully, informs the writer that the actual base of the Animikie may be distinctly observed resting upon the uneven, hummocky Laurentian surface, the sections being perfectly exposed.

Less than half a mile above Kakabeka falls small outlying patches of the basal beds of the Animikie may be seen lying in the hollows of the mammillated surface of the Laurentian, and the latter, as it rises from beneath the Animikie, above the falls, is exceedingly hummocky.

Along the Dawson road, a few miles back of Port Arthur, low, rounded domes of Laurentian gneiss appear in the midst of the Animikie, projecting above the level of the local upper beds.

On Current river the Laurentian rises in hummocky hills from beneath the Animikie slates and traps, although the actual contact has not been observed. Between this and McLean's siding, seven miles east of Port Arthur on the Canadian Pacific railway, the Archean rises in the same hummocky hills from beneath the Animikie, the line of contact being concealed by a narrow strip of swamp. At the siding the contact is only concealed by the width of the road-bed, and the surface of the Laurentian gneiss is seen to plunge down under the flat Animikie rocks with the slope of a steep dome, appearing again in a less prominent but still hummocky outcrop close to the con-