LAKE, 1898-9.

A JOURNEY FROM CHESTERFIELD INLET TO GREAT SLAVE LAKE, 1898-9. 75

y, is where the half a mile beyond, a fine fall of 30 feet ; horizontal beds of white sandstone cut pre-

cipitously for a distance of 150 yards. Rock appears to be very soft, and easily r. Boulders on crumbles; surface on east or north side of fall, near the edge, well smoothed and iss, greenstone, very distinctly striated, striæ S. 20° E.

August 18 .- At last we come on a change from the everlasting sandstone, ere 33 miles u which formation continues the whole way up the Ark-e-leenik river. At about oured sandstone, 12 miles the western branch cuts through a thick bed of gabbro (?), which extends in ek much jagged the form of a deepish gorge for 200 yards; this rock is very massive, beds dipping derable extent : south at an angle of 60°. Rock varies in character, some of it having the appearance loam; outcrops of a foliated rock on the outside. Quartz very much in the ascendant in some cases; biolite in others. In places the rock is largely composed of a flesh-coloured stuff, dstone. ssing through a with only a thin layer of the matrix rock appearing. A dark green rock is much in, a small hill in evidence in many cases. Twenty feet or more of this formation is cut through by andstone débris the river at this spot. Half a mile beyond, the confounded white sandstone appears thin and hori again ; I thought that we had seen the last of it. Huge chunks are piled around g for about 200 in a confused mass in a small gorge, the rock itself also being seen in situ.

August 19 .- A very short distance beyond this small gorge, the river flows miles above our through a deep gorge 40 to 100 feet deep. At the commencement of this gorge, , well shown in and extending for a distance of 500 yards, the bels cut through are now the familiar res were seen a white and reddish sandstones containing quartz'te pebbles, mostly small; same t banks exposed rock on both sides of the river. On the north-east side beds are thin and horizontal; des of the river on the south-west side beds are thick and falsely bedded. Beyond this sandstone, t night, outcrop which extends up 500 yards, the formation changes ; Laurentian gneiss appears. The white-probablijunction of the two formations is not very distinct, for a small landslide has taken atter noticed onplace at this spot, but the difference in the colour of the soil is very apparent; the ortunity to visit white sandy soil of the sandstone and the reddish purple of the new formation lie se boulders piletside by side; the gneiss extends up the gorge for a mile, and above it again crops mens of graniteout, extending also up small side gulches which adjoin the river. This rock has he boulders were very distinct foliation on the outside, more so than when broke 1. Breaks with a e and resemble slatey cleavage. It is much broken up, up-ended, and generally jumbled about in the the edge; wergorge, but dips east at a very high angle, almost vertical. Width of river at this

point, 860 feet. Loose rocks of gneiss scatterel around for 2 miles beyond the gorge. August 20.-Travelle 1 12 miles up the river. Gneiss crops out all along in bed e of the river at ly and distinct of river and at several othe: places, varying in character in different places.

August 21.-Proceeded up river to small lake. Rocks here, red granite (felsaching a range pathic); very rocky country. Took a long walk in afternoon; rocks all the samege after we have de granite in situ, and sc stered boulders and fragments. Gneiss does not appear in height, confine ittu, but boulders and fragments of it, irregular, angular, and sharp-edged; plentiful. h is one confuse August 22.—Fourteen and a half miles up river. Land very flat and sandy, and slipped from high sand hills and knolls in view. At 5 mile, beds of red granite are cut by ridge from the thick vein of white quartz, in which nothing is visible. Vein running north and sume formation outh (true) in form of a small ridge 70 yards by 15 yards. This was on south being beautifullide of river. One and a half mile further up, outcrop of dark grey rock; very livides, the large rittle, and splits up into small sections when tapped with the axe. Outcrop in g, red and whit ed of a small stream, coming in from the south; exposure about 40 yards in e smaller branci xtent, dipping S. 30° E. at an angle of '60°. At 12 miles river cuts through a er to this now sed of Laurentian or granitoid gneiss, mostly grey in colour, but some re ldish; between the gor his rock yesterday and this morning, but the chief formation is the red granite.

for a distance the curious balancel stones observel to-day for the first times e formation ver August 25.—Travelled 6 miles. Barren land here terribly rocky—miles of loose ces. At 3 mileocks and boulders; red granite and granitoid gnaiss. But I had little time to y placed expose cologize, for I had to hunt up the blessed river, which we had lost in a lake.