

The strike of these later rocks is about east-and-west and they continue north to the main body of the lake, approaching which they are seen to be broken into by large dykes of flesh-red granite.

Burntwood lake is unlike many of the other lakes of the district as it is but a narrow channel, or rather three channels meeting to form a Y. The southern branch may be said to run as far as within two miles of Limestone Point lake, as the first current is there met. The western arm reaches to near the waters of the Churchill to which there is an old portage road. This part is more regular in shape than the southern one as well as wider, probably because its course lies nearly along the great break indicated by the flesh-coloured granite dykes also noted on Cold lake and part of Churchill river. Near its western end it breaks across through some of the ridges and continues on in the same direction but on a course three miles to the south-west. In this latter part the lake is bordered by high rocky hills. The eastern arm broadens out and several large islands are found. The rocks of this eastern portion and also down the river (as the outlet is from this branch) as far as the first rapid, are all striking nearly north-and-south or about N.N.W. and S.S.E. They are gray and dark garnetiferous gneisses which show in high ridges on both sides of the valley. The channel runs about north-east but is deflected back and forth along the direction of the gneiss ridges. The outlet of the lake may be said to be situated at the first narrows where there is a strong current. This point is only about four miles below the widest part of the lake and about twelve from the inlet of the south branch. From there to the portage from Nelson lake, the river is very much of the same character as that of the south branch-narrow and with a deep channel flanked by high ridges of gneiss.

Burntwood lake.

Rocks of eastern portion.

From the above mentioned portage the river turns to the east, and begins its descent to the basin of Three Point lake. This basin is situated, by an estimate of the fall in the river, about 150 feet below the level of Burntwood lake. In this part of its course the character of the surrounding country is of a totally different character owing to a deposit of clay of lacustral origin which is spread over the eastern side of the slope lying to the west of the Nelson river.

Clay deposit of lacustral origin.

Near Three Point lake the deposit is of considerable thickness as the river has cut out a deep valley which decreases in depth up to Burntwood lake. On the Burntwood lake basin there is but a thin coating of soil of any kind. Small terraces between the rocky ridges appear here and there but as the river is descended these are more pronounced and, as noted at the portage from Nelson lake, form a