

Along Railway Eastward from Fly River.

In going eastward along the northern exploration line from Fly river the rocks are much the same as seen on Fly river. They consist of small, widely separated exposures of chloritic and hornblende schists. There are two areas of a fine-grained granite and one of diabase. The granite occurs in a considerable elevation on the line, and north of this point there is a hill about a mile distant which is also granite. Granite boulders are plentifully scattered over the ground in this area. An amygdaloidal schist occurs at one place, the cavities being elongated and filled with calcite. Another calcareous exposure is coated to the depth of a quarter of an inch with ochre. Other bands are full of cubes of pyrite. This is the general character of the rocks as seen for a distance of eighteen miles, then the line passes through low swampy ground and muskeg, and there are no rock exposures until Spirit lake is reached, where there are exposures of calcareous and hornblende schists, with dikes of diabase. Between Spirit lake and the Harrieanaw river no rock was seen, either on the line or adjacent to it.

Kakameconan and Makamik Lakes.

The rocks, as far as examined on the Kakameconan river, are green schists. A short distance above where the north branch enters there is a spring which has deposited a considerable quantity of brown ochre. Rocks of the Keewatin group outcrop along the south shore of Makamik lake, and Mr. Johnston reports similar rock along the west side also.

On the south exploration line the only rocks seen were hornblende and chlorite schist, and small dikes of diabase. About half a mile from Lois river there is an exposure containing many quartz veins, some of which hold copper pyrites, but in small quantities. These rocks are much disturbed. They strike nearly east and west, and are mostly vertical.

Height of Land Portage and Nawapitechin River.

In passing over the four mile portage from Lois lake to the Ottawa waters glaciated rock exposures are seen at several points. They are much altered, and vary from chlorite schist to light green, fine-grained, ashy rocks, broken and cemented again by quartz