It is not surprising, that there should be some discrepancy in the direction of the bounding lines claimed for the locations; for the metalliferous veins on this side of the lake exhibit a little more complication than in other parts. One well marked vein, by the side of a trap dyke, runs to the west of north, much in the direction of the neighbouring stratification. The course of others is partially oblique to the strike, for short distances; but it appeared to me, that the main bearing of the principle lodes is in the dip and rise of the strata, running about N. 70 E. to N. 75 E.

Some of the locations were claimed with the length in this bearing (N. 73 E.); and as such would be in accordance with the intention of the Government, and with such a division of the surface as would give all the claimants room to have their locations abutting on the coast; it seems to me the one most consistent with the general interest.

To say that the metalliferous courses given as connected with the twenty-seven locations that came within the scope of my instructions, are an infalliable index of the general directions the copper bearing veins will exhibit, wherever they exist on the British shores of the Lake, would be hazarding more than the neccessarily rapid nature of the examination will The locations have, as yet, been but partially authorize. explored, and, in general, it is only that portion of them resting on the water, which has been subjected to scrutiny. No serious contradictions, however, to the evidence they afford. have been observed on other parts of the coast, the whole of which has been cursorily inspected; and it appears to me enough has been ascertained to make it probable something approaching the true average run of the lodes may be pre-Commencing at Pigeon River, they seem to hold a dicated. course about thirty five degrees to the north of east, as far as St. Ignace Island; they then assume a bearing nearly due east, maintained to the eastern-most island of the Neepigon Archipelago; while on the east side of the Lake they turn up about twenty degrees north of east. When exceptions to these courses occur, the lodes are found to be at right angles to them.

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W. E. LOGAN,

Provincial Geologist.

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