

Island the day before, but did not reach the wharf of the mines until the 28th; and it was not until the 1st June that I received the Secretary's letters of the 19th January and 20th February, at Fort William, on my way down.

As the Company's copper ore cannot be 'crushed,' it is useless for me to calculate thereon as to the result of the weight of the assays. In taking them altogether, they are very satisfactory; the richest ore being equal to 15 per cent. for silver; the second and third being equal to about 70 oz. to the ton; and the best copper ore to 25 per cent., and the worst to 15 per cent.,—however, the first, I am convinced, by mechanical separation, is to be raised to 50 per cent., and the last to 24 per cent. of copper. As the Directors are aware, the object in making the above assays was to show the Directors, and to know myself, to what perfection your metals are susceptible by mechanical separation.

By a reference to the explanatory map, it will be perceived on what part of the mine the works have been carried on during the last nine months, and the extent thereof, excepting the trial pits, it amounts to thirty-five fathoms lineal. At the main land it has proved the ramifications of the metalliferous vein to be converging in depth, escorted by droppers and feeders, and accompanied by leaders, which are the surest indications of our proximity to riches; and although we have not been able to work ore on Spar Island during the winter, yet the discovery of the branches of the lode, concentrating in depth at the main land, is very satisfactory, even for Spar Island. In this way, as the branches of the lode are converging, as we descend, on the main land, it would be unreasonable to suppose the branches of the same lode to be diverging, as we descend on another part of it. I use this by way of comparison, but it is not what I meant by analogical reasoning when I wrote my first report.

I have only to recapitulate my proposed plan for working, viz., to sink the shaft and drive the gallery at the main land; to sink the shaft and work excavation H on Spar Island, and build the stamping mill,—the power of which will govern the returns. Ten stamp heads being capable of thirty tons of