

ted with decomposed slates and gossan, all of which carries copper. This I regard as a favorable indication for the presence of copper. The copper seems to be the richest next the two walls.

The copper-bed dips into the hill about 60° . Quite a large pile of ore lies near the opening. And a considerable preliminary work has been done in the vicinity.

I have had enough experience in examining beds of copper ore situated geologically like your property, to be satisfied that you will find the ore to vary considerably in quantity at different levels. At one time it will be very hungry, and then within a few feet it will expand enormously, and be very rich.

The indications are such as to make me advise you to expend considerable more labor in developing the bed. Before any of the ore can be transported to the market it should be crushed and sorted up to seven or eight per cent. of metallic copper, at least, in order that no unnecessary gangue work be carried over the road to the station.

Very respectfully,

Your obd't serv't,

C. H. HITCHCOCK.

16 BOYLSTON STREET, BOSTON, 22d March, 1864.

WILLIS RUSSELL, Esq.,

DEAR SIR: Your ore has been assayed for gold. It was found that the gold was connected with the copper ore, hence some of the rock was dressed off, and then the amount of ore was smaller than would be the case in large operations.

One ton of ore yielded, one ounce nine pennyweights of pure gold.

Truly yours,

A. A. HAYES.