

These specimens were taken from the Fanny Eliza Winze, and came from one of the large lenticular masses of ore associated with hyaline quartz. Interstratified with the slates we find the same kind of ore, with bell-metal and yellow copper pyrites.

THE MINE AND DRESSING-HOUSES.

Descending by ladders to the 30 fathom level, 180 feet from the surface, we examined the different exposures of the ores in the levels and winzes where the miners were at work. An adit level, which penetrates this hill across the strata, some 248 fathoms in length, being blocked up by deep snow, was not examined, and I found that little information could be obtained in it beyond that shown in Mr. H. Williams's diagram, made when the rocks were freshly cut.

The following notes were made in the mine and dressing-houses:—

At the bottom of the 30 fathom level we see, at the rising level, or winze, an interstratified bed of copper ore, which is cut for nine feet in thickness without finding its limits. The dip of the strata was found to be at this place 20 degrees north-east. Numerous lenticular masses of quartz, with copper ores, of the purple and vitreous species, were also observed.

This rise is to be carried up to the 10 fathom level, and will pass up with the interstratified bed of ores. At the 26 fathom level, in its eastern end, the strata were found to dip 20 deg. and 30 deg. eight or ten degrees west of north, there being a wavy form to the strata. The interstratified bed was examined for the extent of 15 fathoms, pieces of ore being freshly broken off as we proceeded.

Four backs can here be stoped, twenty-seven fathoms in height, one of 20 fathoms and one of 10 fathoms in length being now opened. The cost of this level was sixty dollars per fathom, and it is six feet wide and seven feet high. Four men did the work on contract. One hundred and thirty-five tons of three and a half per cent. rough ore was raised from this work.