

other. Here are to be found malachite, brochantite, olivenite, melaconite, chrysocolla, aurichalcite, chalcocite, chalcopyrite and calamine; and of the lead minerals, galenite, cerussite (white and green), minium, anglesite, leadhillite, caledonite, linarite, pyromorphite and mimetite. The pyromorphite crystals are sometimes found on plumbogummite, and are often changed to that mineral. The Drygill mine, situated in the upper part of the valley, is an old lead mine worked at one time for campylite, which commanded a good price for glass making. The small amount of psilomelane found with the campylite probably made it especially desirable for this purpose. Small druses of an orange to nearly red color can still be found on the dumps. Some of the barrel-shaped crystals are changed into psilomelane, and the deepest colored crystals are always in lumps of earthy psilomelane.

Going up to the top of the "gill" and southeast over the fells the only living things one meets are moorhens (grouse) or, in the distance on the side of the fells, perhaps some sheep. It is to be hoped you do not get caught in a rain storm, as happened to me the last time I was there. One can not see ten meters away. An umbrella is of no use, as it rains from above, from below, and from all sides. Ten minutes are sufficient to give you a soaking, even in a rain-coat. Road or path there is none, only sheep paths and those lead in all directions except the right one. In good weather it takes about three quarters of an hour to cross the fell and go down the Brandygill to the Carrock mines. These mines were formerly worked for lead, and only about fifteen years ago was the value of the tungsten ores found there recognized. Here are found fine specimens of wolframite, wolframite pseudomorphs after scheelite, bismuth in small grains (often covered with a fine coating of gold), scheelite, molybdate, ilmenite, wulfenite, bismite, bismuthinite, stolzite, arsenopyrite, "gruenlingite," pyrrhotite, pyrolusite, and marmatite. The scheelite from Carrock contains radium. Of non-metallic minerals found there may be mentioned corundum, diallage, fibrous tourmaline, apatite and muscovite variety gilbertite, also large crystals of quartz sometimes over a half meter long.

We leave the Carrock mines and take a "trap" for Troutbeck station. Near the station were found two lumps of antimonite, in excavating for the railroad, but none have since been found