

Scannan, with that of east Ben More. He saw it at some intermediate spots, like stepping-stones, the whole way across; but he did not walk over the ground, at the stream side; and therefore the green band was not made continuous.

Agreeing as he does with Nicol (and lately Callaway) as regards the dolomite of Stronchrubie lying in a basin, he does not agree with either, as to the inferences to be drawn therefrom. A great semi-circular, anti-clinal-roll of the lower quartzite troughs the dolomite; which has thinned out before it plunges under the "igneous rock" of Ben Bhrachaid; but the *argillaceous beds* are there seen, dipping under the "igneous rock."

He also differs, altogether, from both of the above writers, as to the Cnoc-an-drian section; maintaining that the views of Murchison, Harkness, and Geikie as to it, are correct; though he cannot agree as to the *details* of the sections given by either Murchison, or by Harkness.

V.—*Note on Artificial crystals of "Specular Iron" formed in a Copper Works Slag.*

By W. TERRILL.

Read September 2nd, 1881.

SINCE my last communication on Artificial crystals (Min. Mag. No. 19), I have met with some very remarkable crystals formed in a Copper Works Slag which consisted mainly of Cuprous Oxide and Ferric Oxide with a little lime, a product from melting a charge of "copper precipitate."

The crystals are hexagonal plates, bounded on the edges by the faces of a rhombohedron which roughly measured gives an angle of $R:R=86^\circ$. They are iron black in color, with a splendid metallic lustre, and contain 50% Ferric Oxide with 45% copper.

Examined under the microscope or even with a strong lens, particles of copper and cuprous oxide are visible in a separate state.

I am of opinion that these are artificial crystals of "Specular Iron," which have separated out on cooling from the molten slag, and crystallized in a sort of skeleton network, the interstices mechanically imprisoning the particles of copper and cuprous oxide which are present.

A small quantity of lime was added to the charge for the purpose of combining with and fluxing the Ferric Oxide; but no lime was found in the crystals.