

composition. There is need for further analyses of optically investigated material. Four new analyses have been made and a corrected diagram showing changes of γ and $2V$ with the content of FeSiO_3 has been drawn.

(4) "Two new bismuth minerals from South Africa." By Professor E. D. Mountain.

A nodule of a pale grey mineral found with bismuth ores near a pegmatite outcrop 13 miles north-west of Jackals Water, near Steinkopf, Namaqualand, has a composition very nearly BiOCl . X-ray powder photographs of the material confirm its identity with artificially prepared BiOCl and distinguish it from the hydrated bismuth oxychloride, daubreeite. The new mineral, which it is proposed to name *bismoclite*, is tetragonal with cell-sides $a = 3.89$, $c = 7.37\text{\AA}$. $H = 2\frac{1}{2}$. Sp. gr. 7.36.

The other new mineral, *bokspuitite*, is opaque, pale yellow to grey-brown, and occurs in quartz-veins associated with wolframite, scheelite, and beryl on the farm Bokspuit, Gordonia. Its chemical composition is near $6\text{PbO} \cdot \text{Bi}_2\text{O}_3 \cdot 3\text{CO}_2$. $H = 3\frac{1}{2}$. Sp. gr. 7.29.

CORRESPONDENCE.

GEOLOGICAL MAPS OF SOUTH AFRICA.

SIR,—I have just seen in the GEOLOGICAL MAGAZINE for January the short review of our Sheet 51 (Bethal) and the Explanation thereto. I regret that an incorrect statement has appeared in the Explanation; the truth is that both the large scale maps to which reference is made—the Witwatersrand Goldfield Map and the Heidelberg Map—are on the scale of 5,000 feet to the inch.

Since the beginning of 1933, all our ordinary sheet maps, such as this one of Bethal, are planned to cover an area of one degree of longitude by half a degree of latitude (with the exception of those which include the coast-line) and are published on a scale of 2.347 miles to the inch (this being equivalent to a scale of 1,000 Cape rods to the inch or a natural scale of 1/148750); and ultimately the Union will be covered by 259 sheets on this scale. Of those adjoining Sheet 51 (Bethal) there have already appeared Sheet 52 (Johannesburg) on the west and Sheet 3 (Middelburg) on the north.

The maps on the larger scale comprise areas of greater economic importance and are in the nature of special publications, not to be confused with the ordinary geological sheet maps.

I trust that this will dispel some of the confusion to which reference is made in the review.

SIDNEY H. HAUGHTON.

PRETORIA.

26th January, 1935.
