

MINERALOGICAL NOTES, No. V. *

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Stolzite.

Broken Hill, New South Wales.

(Figures 1-4.)

A NUMBER of interesting specimens of stolzite from a new find at Broken Hill, New South Wales, were collected by Mr. M. Mawby and obtained by exchange for the collection of this Museum. All the material was secured from Section Ce, 525 feet level, South Mine, Broken Hill.

The discovery of stolzite in this mine is of particular interest in view of the statement of Mr. Geo. Smith¹ that stolzite was peculiar to the Proprietary Mine, and that it was found only in the upper portion of the oxidised zone. Mr. Smith's description applies only to the upper and oxidised portion of the Broken Hill lodes.

The paragenesis of the mineral in the South Mine appears to be distinct from that of the stolzite found in the Proprietary; according to Smith, the associated minerals in the latter case are manganic ironstone and quartz or garnet sandstone, though Hlawatsch² records one specimen in which the crystals are seated on decomposed galena. In the South Mine the associated minerals are secondary galena, stalactitic smithsonite, and cerussite.

The colour of the mineral varies from colourless to very pale grey. Colourless crystals in the Proprietary are rare, and are always tabular in habit.

The habit of the crystals in the Proprietary Mine has been summarised by Mr. G. W. Card³ as follows:—

- “(a) Flattened, leaden-grey, tetragonal pyramids, with little or no prism.
- (b) Leaden-grey tetragonal prisms with low pyramids.
- (c) Claret-coloured pyramidal forms, perhaps hemihedral.
- (d) Colourless or white crystals with adamantine lustre; very tabular in habit . . .”

* For No. IV, see “Records of the Australian Museum,” vol. xvii, No. 9, 1930, p. 408.

¹ Smith.—Geol. Surv. New South Wales, Min. Res. No. 34, 1926, pp. 88-89, 105.

² Hlawatsch.—Ann. K. K. Naturh. Hofmus. Vienna, xii, p. 33.

³ Card, G. W.—Rec. Geol. Surv. New South Wales, v, 1897, p. 121.