

MINERALOGICAL NOTES: No. VI.—TOPAZ, BERYL,
ANGLESITE, RUTILE, ATACAMITE, PYRITE.

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(Plates xiii.-xvi.).

TOPAZ

COW FLAT, NEAR TORRINGTON, NEW SOUTH WALES

(Plate xiii., figs. 1, 2.)

Two specimens from this locality were examined and measured. Fig. 1 represents a crystal from the collection of the Department of Mines; it occurs *in situ* in a small vugh, accompanied by crystallised quartz and three smaller topaz crystals, at Fielder's Hill. The habit is stout prismatic, the dimensions $12 \times 12 \times 12$ mm., and the colour pale blue. For measurement the entire specimen was mounted on the two-circle goniometer with the face m'' ($1\bar{1}0$) polar, the forms being determined from the stereographic projection by aid of Penfield's protractors. The base is quite rough; f and y slightly inter-oscillate.

The other specimen (Plate xiii., fig. 2) consists of an isolated, transparent, colourless crystal of $2.7 \times 2.2 \times 1.6$ cm. The basal plane and the dome f are roughened by oscillation with y and h . The prism faces are as usual striated vertically, and some of them yield multiple images; n (140) is doubtfully present.

The measured and calculated co-ordinate angles are tabulated below; Dana's ratios and lettering are used throughout.