

MINERALOGICAL NOTES: No. IX.—TOPAZ, QUARTZ,
MONAZITE, AND OTHER AUSTRALIAN MINERALS.

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(Plates xxxvi.-xxxix.)

TOPAZ.

COW FLAT, NEAR TORRINGTON, NEW SOUTH WALES.

(Plate xxxvi., fig. 1.)

Three fine, isolated, colourless crystals, the largest measuring $1 \times 1.4 \times 1.6$ cm., have been recently added to the Museum collection; the exact locality is Meehan's Lease. The crystals, which have a pyramidal habit, are slightly waterworn, but the two which were measured gave fairly good signals.

ANGLES.

Forms.		Measured.				Calculated. (Goldschmidt.)				Difference.	
		ϕ		ρ		ϕ		ρ		ϕ	ρ
<i>m</i>	110	62	6	90	0	62	8	90	0	2	0
<i>M</i>	230	51	35	89	58	51	35	„	„	0	2
<i>l</i>	120	43	26	90	0	43	25	„	„	1	0
<i>g</i>	130	32	28	90	0	32	14	„	„	14	0
<i>O</i>	560	57	42	—	—	57	37	„	„	5	—
<i>d</i>	201	89	58	60	48	90	0	61	0	2	12
<i>f</i>	021	0	4	43	33	0	0	43	39	4	6
<i>o</i>	221	62	7	63	46	62	8	63	54	1	8
<i>u</i>	111	62	16	45	41	62	8	45	35	8	7

The prism faces are in general vertically striated; on *m* (110) are raised rectangular markings (*wachtums-figuren*), similar to those described on the topaz of Carpet Snake Creek¹. Reflections were obtained from the sides of these markings, the average ϕ

¹Anderson—Austr. Mus. Rec., vii., 1909, pl. lxxix., fig. 2.