From crystal No. 1 the polar elements were found to be $p_0 = 0.8277$, $q_0 = 0.4720$, corresponding to the axial ratios $a : b : c$: . 0.5703 : 1 : 0.4720. These ratios are slightly lower than those obtained by previous observers, though they are very near the values of Lévy—$a : b : c$: : 0.5723 : 1 : 0.4718.

The details of the measurements given in the following table were obtained from crystals 1 and 2 except the values for the forms (103), (433), (163) and (250).

TABLE II.

NO.	FORM.	NO. 1 OBSERVED.			NO. 2 OBSERVED.			CALCULATED.	
		Faces	ϕ	ρ	Faces	ϕ	ρ	ϕ	ρ
1	111	4	60° 17′	43° 37′	4	59° 51′	43° 20′	60° 18′	43° 37′
2	133	2	30° 07′	28° 35′	4	30° 22′	28° 52′	30° 19′	28° 40′
3	433	8	67° 02′	50° 10′	..	.....	.....	66° 51′	50° 12′
4	163	4	16° 11′	44° 36′	..	.....	.....	16° 17′	44° 32′
5	011	..	.....	.....	2	0° 35′	25° 51′	0°	25° 16′
6	021	1	0° 10′	43°	2	0° 20′	43° 28′	0°	43° 21′
7	103	2	89° 37′	15° 26′	..	.....	.....	90°	15° 26′
8	101	1	89° 55′	39° 40′	1	88° 55′	39° 30′	90°	39° 36′
9	201	..	.....	.....	1	89° 29′	59° 04′	90°	58° 52′
10	670	..	.....	.....	3	56° 19′	89° 32′	56° 22′	90°
11	120	4	40° 42′	90°	4	40° 49′	89° 19′	41° 15′	90°
12	5.11.0	1	38° 44′	90°	.	.....	.....	38° 33′	90°
13	250	4	35°	90°	..	.....	.....	35° 03′	90°
14	130	3	29° 34′	90°	4	29° 13′	89° 05′	30° 53′	90°
15	3.11.0	1	25° 48′	90°	..	.....	.....	25° 34′	90°
16	160				1	16° 02′	89° 55′	16° 20′	90°
17	010	1	0° 05′	90°	..	.....	.....	0°	90°
18	100	2	90°	89° 42′	..	.....	.....	90°	90°

All the forms observed on hopeite from the H. B. Mine are shown on the gnomonic projection (Fig. 10).

PARAHOPEITE

This mineral was first observed by Spencer on specimens from North Western Rhodesia[1] where it was associated with hopeite, tarbuttite, calamine, cerussite and other lead and

[1]Spencer, L. J. (Min. Magazine, Vol. xv, p. 18, 1908).