

MINERALOGICAL NOTES No. 2*

By

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(Figures 1-5.)

ON THE IDENTITY OF " GREEN RHODONITE " WITH MANGANHEDENBERGITE

Dr. F. L. Stillwell¹ has described a mineral from Broken Hill, New South Wales, under the provisional name of " Green Rhodonite." Not having obtained a specimen of this mineral the writer took the opportunity of a generous offer of Mr. A. Fairweather, Manager of the South Mine, Broken Hill, to collect a quantity of this material from section E, 725-ft. level. Later a specimen from The Pinnacles was submitted for determination, which proved to be identical with the material from the main Broken Hill lode. So distinct in general appearance was this material from rhodonite that it seemed that the term " Green Rhodonite " was misleading at least.

Taking the analysis by Mr. F. H. Searcy² quoted by Dr. Stillwell, it will be seen from the following table that chemically the mineral is practically identical with manganhedenbergite, from Dognacska.³

	1	2	3
SiO ₃	48.30	48.38	8
Al ₂ O ₃	3.22	0.68	} .5
Fe ₂ O ₃	2.04	3.23	
FeO	17.10	15.88	} 3.5
MnO	7.10	7.94	
CaO	22.54	22.10	4
MgO	nil	2.22	
Alkalies	0.28	
	100.30	100.71	

1. " Green Rhodonite," Broken Hill.
2. Manganhedenbergite, Dognacska.
3. Molecular Ratio from No. 1.

*For No. 1, see " Records," vol. xiv., No. 2, 1923, p. 101.

¹Andrews—Mem. Geol. Surv. N.S.W., Geol., No. 8, 1922, App. II (Stillwell), pp. 385-386.

²Mr. H. P. White, Analyst and Assayer to the Geological Survey of New South Wales, has shown me an analysis made by himself which agrees substantially with that by Searcy.

³Dana—System of Mineralogy 6th Ed., 1892, p. 359.