Reply to the comment by D. W. Hedding

R. James Roberts¹ • Keabetswe D. Lehong¹ • Andries E. J. Botha¹ • Gelu Costin^{2,3} • Frikkie C. De Beer⁴ • Willem J. Hoffman⁴ • Callum J. Hetherington⁵

Received: 15 June 2020 / Accepted: 21 June 2020 / Published online: 27 June 2020
© Springer-Verlag GmbH Austria, part of Springer Nature 2020

We as the authors of the article “Clinopyroxene megacrysts from Marion Island, Antarctic Ocean: evidence for a late stage shallow origin” (Roberts et al. 2019) gratefully accept the constructive Comment received from Dr. Hedding. Dr. Hedding is an expert on Marion Island, having had many field seasons there, and he is undoubtedly correct that we have placed the sampling location in the wrong position. In our private discussions with Dr. Hedding, he noted that the clinopyroxene scoria cones are much rarer than we had believed, and that only Pyroxene Kop consists primarily of clinopyroxene megacrysts. We also note that we did not

correctly acknowledge the eruption in 2004, which Dr. Hedding has pointed out.

Reference

Roberts RJ, Lehong KD, Botha AEJ, Costin G, De Beer F, Hoffman WJ, Hetherington CJ (2019) Clinopyroxene megacrysts from Marion Island, Antarctic Ocean: evidence for a late stage shallow origin. *Mineral Petrol* 113:155–167

Publisher's note Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

Editorial handling: L. Nasdala

✉ R. James Roberts
james.roberts@up.ac.za

¹ Department of Geology, University of Pretoria, Lynnwood Road, Pretoria 0002, South Africa

² Department of Geology, Artillery Road, Rhodes University, Grahamstown 6140, South Africa

³ Department of Earth, Environmental and Planetary Sciences, Rice University, MS-126, 6100 Main Street, Houston, TX 77005, USA

⁴ Radiation Science Department, South African Nuclear Energy Corporation (Necsa), Elias Motsoaledi Street Extension (Church Street West), R104 Pelindaba, Hartbeespoort 0240, South Africa

⁵ Department of Geosciences, Texas Tech University, Science Building 125, 1053 Main St, Lubbock, TX 79401, USA