Accepted Manuscript

Paradoxical co-existing base metal sulphides in the mantle: The multi-event record preserved in Loch Roag peridotite xenoliths, North Atlantic Craton

Hannah S.R. Hughes, Iain McDonald, Matthew Loocke, Ian B. Butler, Brian G.J. Upton, John W. Faithfull

 PII:
 S0024-4937(16)30328-0

 DOI:
 doi:10.1016/j.lithos.2016.09.035

 Reference:
 LITHOS 4097

To appear in: *LITHOS*

Received date:15 May 2016Revised date:7 September 2016Accepted date:28 September 2016



Please cite this article as: Hughes, Hannah S.R., McDonald, Iain, Loocke, Matthew, Butler, Ian B., Upton, Brian G.J., Faithfull, John W., Paradoxical co-existing base metal sulphides in the mantle: The multi-event record preserved in Loch Roag peridotite xenoliths, North Atlantic Craton, *LITHOS* (2016), doi:10.1016/j.lithos.2016.09.035

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Paradoxical co-existing base metal sulphides in the mantle: the multi-event record preserved in Loch Roag peridotite xenoliths, North Atlantic Craton

Hannah S.R. Hughes^{1*}, lain McDonald², Matthew Loocke², lan B. Butler³, Brian G.J. Upton³, John W.

Faithfull⁴

¹School of Geosciences, University the Witwatersrand, Private Bag 3, Wits 2050, Johannesburg, South Africa

²School of Earth and Ocean Sciences, Cardiff University, Main Building, Cardiff CF10 3AT

³School of Geosciences, University of Edinburgh, Edinburgh EH9 3JW

⁴Hunterian Museum and Art Gallery, University of Glasgow, Glasgow G12 8QQ

*Corresponding author email: hannah.hughes@wits.ac.za; Telephone: +27(0)117176547

Submission to: Lithos (special issue for European Mantle Workshop)¹

Keywords: SCLM, sulphide, PGE, xenolith, metasomatism

¹ **Abbreviations**: North Atlantic Craton (NAC), Great Glen Fault (GGF), North Atlantic Igneous Province (NAIP), British Palaeogene Igneous Province (BPIP), subcontinental lithospheric mantle (SCLM), platinum-group elements (PGE), highly siderophile elements (HSE), base metal sulphide (BMS)

Download English Version:

https://daneshyari.com/en/article/5784111

Download Persian Version:

https://daneshyari.com/article/5784111

Daneshyari.com