

Electronic appendix A for the article: "Characterization and origin of dunitic rocks in the Ni-Cu-(PGE) sulfide ore-bearing Kevitsa intrusion, northern Finland: whole-rock and mineral chemical constraints" by Luolavirta et al. (2018), Bulletin of the Geological Society of Finland. Photographs of dunitic rocks and examples of contact zones with the Kevitsa intrusives.

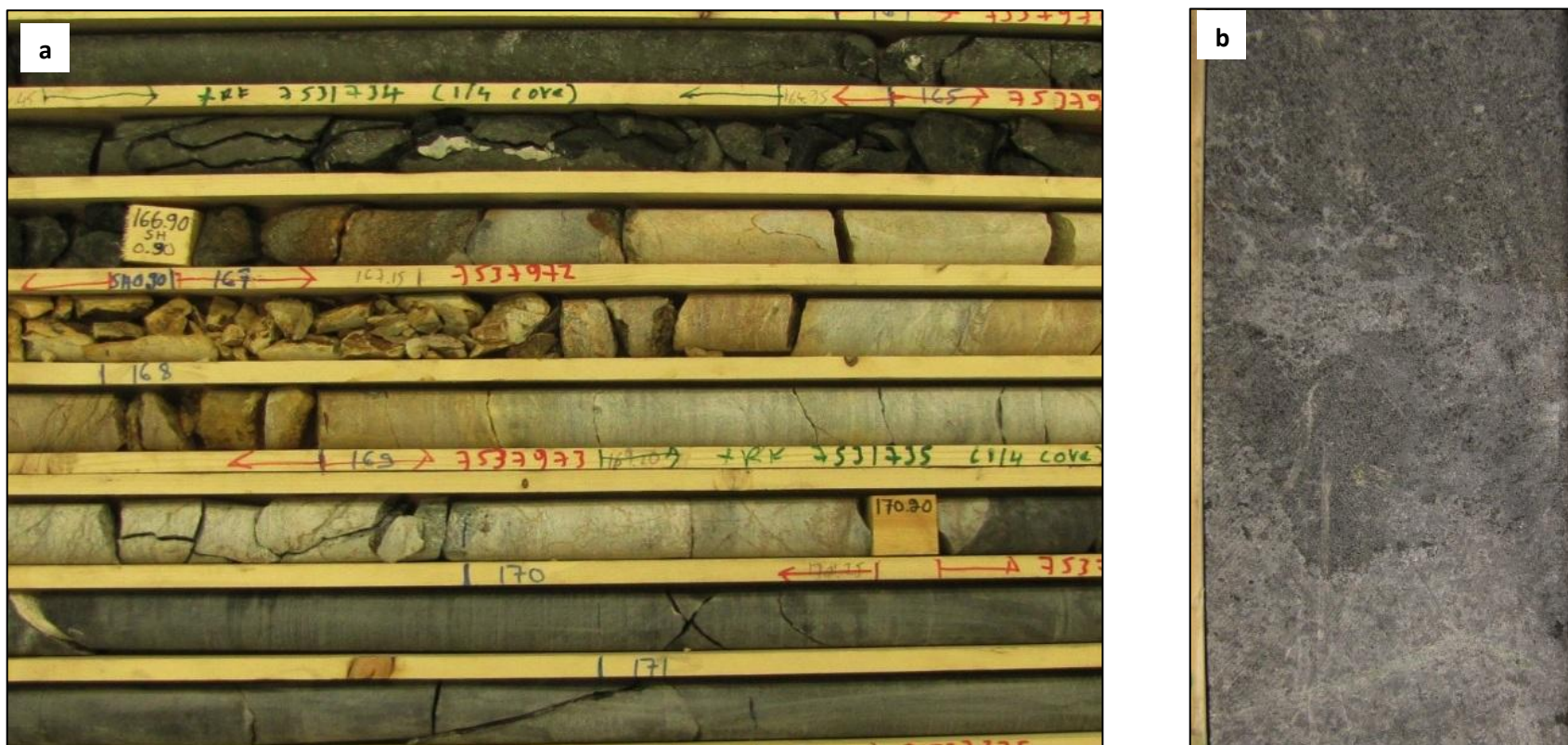


Fig. A1 Type examples of contacts between the Central Dunite and Kevitsa intrusive rocks a) Contact zone between Kevitsa gabbro (up) and Central Dunite (down) and the quartz-carbonate vein separating the two. The Kevitsa gabbro is severely biotitized resulting in dark coloring of the rock. b) Brecciated contact between the Central Dunite (up) and heavily altered Kevitsa pyroxenitic cumulate (down).



Fig. A2 Examples of contacts between Kevitsa olivine pyroxenites and Kevitsa Dunite a) Complex (mingled) contact zone between olivine pyroxenite (up) and dunitic cumulate (down) b) Irregular contact between olivine pyroxenite (left) and dunitic cumulate (right) and c) Kevitsa olivine pyroxenite (left) intruding and brecciating Kevitsa Dunite (right). Note the rounded to irregular shape of the dunitic clasts.

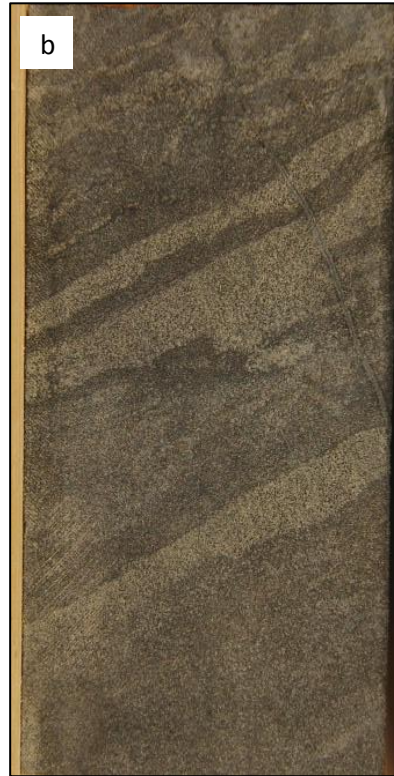


Fig. A3 Examples of recrystallized inclusions a) Group 1 massive and finely banded (clinopyroxene bands seen as lighter toned stripes) inclusions in an altered olivine pyroxenite (pit boulder) b) Group 2 banded ultramafic inclusion showing centimeter scale lithological banding. The light bands contain less olivine.