

Geology of subsheets A and G of Yabello map sheet (NB37-14)

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ABSTRACT

Subsheets NB37-14/A and G are located in the northwestern part of the Yabello sheet, found in Sidamo Administrative region, Borena zone, and in Yabello and Teltelle woredas. 80 % of the area is covered by Cenozoic volcanic rocks and 20 % by quaternary sediment cover.

There are also some pockets of schists and post tectonic granites of undetermined age.

The volcanic rocks are mainly basaltic flows, both older and younger flows with some trachytes. Pockets of Granites and schists are found engulfed by younger basaltic flows.

Vast area of the down thrown rifted plain is covered by quaternary Alluvial and Eluvial deposits.

Rifting, according to Davidson 1983 is assumed to commence in the middle to late Miocene resulting in the formation of horsts and flat lying plains. Post rift volcanism is mainly confined to the rift floor and they are younger basalt flows. The contact between the different basaltic flows is characterized by backed zone and the boundary between basalts and Trachytes is mostly gradational but also tectonic at some spots.