Petrographic Characterization of the Tanda - Bondoukou Departments (Gontougo Region, North-East of Côte d'Ivoire)

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ABSTRACT

The Gontougo region, located in the northeast of Côte d'Ivoire, in the Birimien domain. This region, which straddles the departments of Agnibilékrou, Tanda and Bondoukou, contains different lithological sequences which have experienced several episodes of tectonic deformation. The methodology used in this study conducted in the departments of Tanda and Bondoukou, made it possible, after macroscopic observations made in the field, to collect samples for microscopic studies. The lithology of the Gontougo region consists of three units. The first, volcano -plutonic, is represented by volcanic lava (basaltes and andesites), pyroclastites (beaches, lapilli tuffs and cinerites), plutonites and hypovolcanics (gabbros, diorites and dolerites) and the amphibolites. Added to this are intrusives represented by tonalites, granodiorites and granites. The last unit, metasedimentary, consists of sandstone -conglomeratic series and the Comoé basin series. The sandstone-conglomeratic series is represented by sandstones, arkoses and conglomerates. The sedimentary series of the Comoé basin is made up of pelitic schists, metaarenites and metasiltites which appear in places in the form of sericite schists or in the form of quartz- sericitous schists or clay schists. The primary minerals of these different units destabilize and generally transform into amphibole, chlorite, sericite, epidote and carbonates.

Keywords: Ivory Coast, Petrography, Birimian, Gontougo, Tanda -Bondoukou.

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