

## **Contribution of geophysics to the study of the Goumeré gold mineralization (northeast of the Ivory Coast): induced magnetometry and polarization**

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In West Africa, Birimian formations, generally masked by laterites, are well known for their precious metal content. In the Goumeré region of northeast Côte d'Ivoire, geophysical studies (magnetism and induced polarization) showed the presence of three lithological complexes: granodiorites, basic formations and a complex of sedimentary and volcano-sedimentary formations. Tectonics are dominated by N-S, NE-SW and ENE-WSW oriented faults. Induced polarization (PI) studies revealed that sulphide mineralization is "disseminated" in mafic volcanic formations and granodiorites, and is mostly associated with quartz veins and veins. This is in favor of a model of "hydrothermal" type mineralization with structural control.

**Keywords:** Magnetic anomaly, IP anomaly, Birimian, Goumeré.