#  COVER LETTER

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**Novelty and Importance of the Findings**

Magnetic method plays a vital role in mineral exploration. Its importance varies from its application in delineating structures like faults, folds, contacts, shear zones and intrusions to automated detection of porphyry and favorable areas of ore deposits which structures play an important role in the localization of mineralization. Knowing the nature of the mineralization and its origin is a key factor in mining exploration in any given area since minerals are structurally controlled and usually associated with faults, fractures and shear zones. This enables future exploration and gives an idea upon the mining potential of the region.

**Declaration**

I Egbelehulu Priscillia, declares the originality of this research work. This work has not been submitted for publication in any journal prior to this journal.

**Conflict of Interest**

There is no conflict of interest in this research work.

**Consent**

Consent was obtained from all the participants of this research work to publish it.

**Contributorship**

Egbelehulu Priscillia - Writing, original draft, conceptualization, investigation, funding and resources.

Abu Mallam – Supervision

Abel U. Osagie – software, review and editing