Quantitative Assessment of Pyrite-Bearing and Altered Micaschists for gold mineralisation: Bissiang Prospect , Nyong Group, Southern Cameroon; Technical Note 202511

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Overview:

-Nyong Series: mesothermal/orogenic gold signatures confirmed through alluvial gold microchemistry and IP geophysics.

-Target IP chargeability volume: ~996.7 × 10^6 m^3

-06 oriented diamond drillholes (2,015 m) covering 0,85% of anomaly.

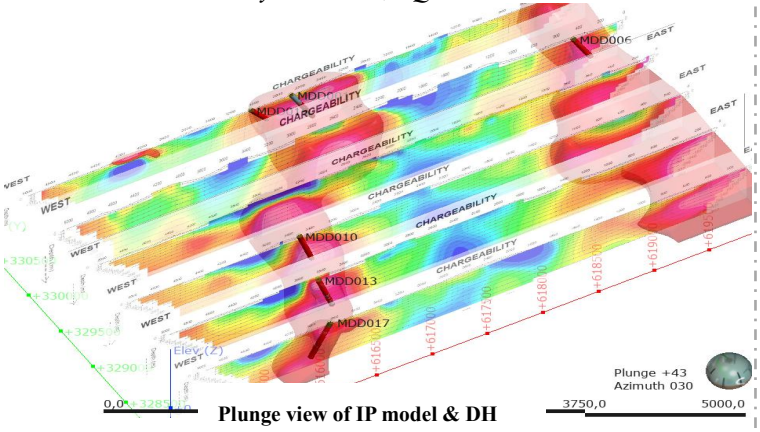
Goal: Log, model and quantify visible gold, lithology, alteration and pyrite.

Key data & findings:

i) Drilling Summary Table:

Feature	Micaschistes	Quartzite
Thickness (m)	~ 1680 meters	~ 325 meters
Pyrite (Sensitivity 1–5)	3–4 (Moderate to strong)	1–2 (Weak, localized)
Alteration	Sericite, Chlorite, Carbonate	Iron Oxydes; rare chlorite
Visible gold	Rare Flakes	Rare Flakes (localised)
Economic Potential	High: Consistent with regional orogenic signatures	Low (localised)

**Micaschists density: 3.02 t/m³; *Quartzites 2.8 t/m³.*



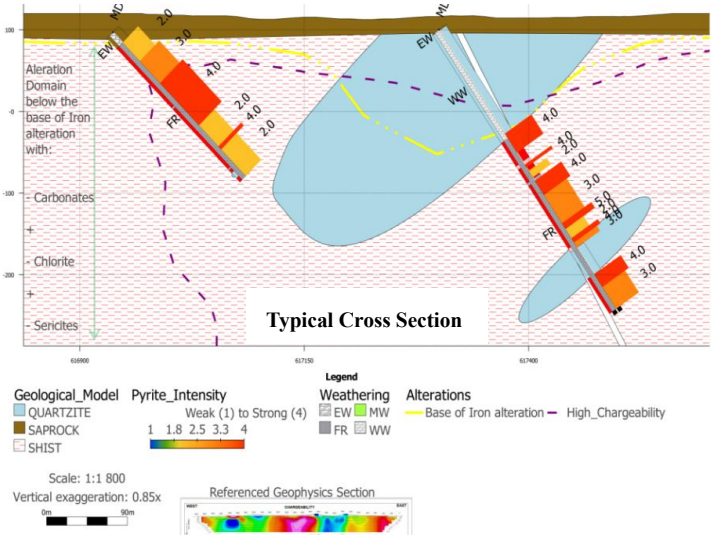
Plunge view of IP model & DH

ii) Pyrite Volume:

Pyrite-bearing rock volume ~8.44 × 10^6 m^3 → ~25.5 Mt. (~0.85% of the total anomaly→large unexplored potential).

iii) Predicted Pyrite-Bearing Volumes and Tonnages:

Drilled Proportion of IP Target	Pyrite-Bearing Volume (m^3)	Approximate Tonnage (Mt)
Current (~0.85%)	~8.44 million	~25.5
25% drilled	~249 million	~750
50% drilled	~498 million	~1,505
75% drilled	~748 million	~2,260



Recommendations:

Geochemical results before extending oriented drilling.

References

Azam S.D., et al., 2017. *Ore Geology Reviews* 92(834);

Shanel, S.S.A.D., et al., 2023. *Arabian Journal of Geosciences*, 16, 359.