



## **Penalobo "Castle Rocks" - First approach to valuing this geoforms.**

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The village of Penalobo, located in the municipality of Sabugal (Portugal) is characterized by hercynian granites with interesting geological features, including pegmatite veins and quartz crystals with exotic forms, and presents some steep slopes and plateaus. From the mountainous configuration highlight some more pronounced elevations called "Castle Rocks". Such structures are composed by granites, which present greater fracturing at the top, which leads to the formation of large granite blocks. In less fractured zones it is possible to observe small folds. An excavation existing in one of those elevations allows us to observe a basic rock outcropping with clusters of crystals mottled with circular shape, which are indicative of the presence of late fluid during crystallization. In the zone of contact with the enclosing granite, there are small folds caused by magma intrusion. Those evidences led us to hypothesize that the peaks observed in the area of Penalobo village were due to the intrusion on basic magma.

All this framework and geological environment becomes an asset for the scientific, educational and economic development of the region. On the other hand, it has a vital importance in the context of a strategy of forming a geological park, in the point of view of tourism, research and interpretation.