ABSTRACT

he geologic setting of the Marabá Sheet comprises part of the three great geotectonic provinces, which are represented by the Itacaiú nas and Aragua ia Shear Belts and the Parnaíba Basin.

The Itacaiúnas Belt, se parated intwo structural domains and occupying 10% of the area, represents the older geologic context who se evolution ranges from the Arche anto the lower Proterozoic litostructural domains. The first one comprises the imbricated domain associated to transcurrent movements involving the Bacajaí Metamorphic Suite and the Xingu Complex rocks which show an anastomosed pattern with E-W trend presenting variations to the NW-SE and NE-SW directions. The se cond domain is materialized by the transcurrent system with associated thrustings involving the Rio Novo, Tapirapé and Paredão groups.

The Ara gua ia Belt is considered as early-middle Proterozoic and resulted from a compressive regime. It comprises 40% of the Mara bá She et and it is represented by Xambioá, Pequizeiro and Couto Magalhães for mations, which show a general imbricated relationship.

The evolution and the lithogenesis of the Parnaíba Basin took place from Paleozoic to Mesozoic through the distensive regime. In the Paleozoic, the extensional regime had the maximum oriented strechtching of its main axis, after the NW-SE direction, while, in the Mesozoic, the mentioned axis showed up along the NE-SW direction.

The Ce no zo ic Co vers, entiring the ge o lo gic setting, comprises laterites, colluvium, elluvium and alluvium, sometimes controlled by neostructures.

During the field work, have been in vento red fifty seven mineral occurrences such as diamond, ame tiste, quartz, citrine, amazonite, psaronius, limes to ne, pebbles, sands, clays, iron concretions were detected and registered "garim pos" and deposits. A mineral water mine has been discovered.

Several favourable areas for gold, nickel-chromium (secondarily amianthus), quartz, citrine, ametiste, diamond and limestone (secondarily lead-zinc) are described.