

## **PETROTECTONIC ASSOCIATIONS AND MINERAL RESOURCES IN THE LAVALLEJA GROUP OF THE DOM FELICIANO BELT (URUGUAY)**

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Three petroTECTONIC associations (PA) limited by major tectonic lineations were defined in low grade supracrustals of the Lavalleja Group (Brasiliano Cycle: 1-0.6Ga.), in the Fuente del Puma sheet. The PA-I is composed essentially by metasandstone, metapelite and metalimestone; conglomerate, dolomite, basic metavolcanics and cherts are associated terms. Good preservation of stratification, marked schistosity, and open to closed folds are representative. High Mn, Pb background values and Pb, Zn, Cu, As and Mn anomalies are distinguished. Limestone and dolomite are the main mineral resources. The summarized characteristics can be related to a proximal platform. Tres Cerros lineation limits PA-I to the west with PA-II to the east. In PA-II, meta-volcanic and meta-plutonic basic rocks and meta-calclutite dominate, while limestone and Qz-sericite schists and metalutite are associated. Transposition and isoclinal folds are ubiquitous. High Cu-Zn backgrounds and Ni-Cr anomalies is the geochemical signature. Abandoned mines of metallic minerals are frequent, while active mines of slate are extensive. The observed features are representing a deep platform-slope environment. PA-II limits to the east with PA-III through the Mina Oriental lineation. PA-III is mainly integrated by limestone and acid pyroclastic rocks, while acid metavolcanics, meta-calclutite, basic metavolcanics and sericite-schists are the associated terms. Medium development of schistosity and open to closed folds represent the structural characteristics. Backgrounds in base metals are low, although an important Cu-Ni-Nb-V-Co anomaly is observed. Limestone and marbles represent the principal mineral resources. This PA is consistent with a carbonate platform close to a volcanic zone.