

**ALTERACIÓN HIDROTHERMAL Y MINERALIZACIÓN EN EL AREA DEL CERRO EL
TEMBLOR, SIERRA DE LA HUERTA, PROVINCIA DE SAN JUAN**

B. Castro de Machuca^{1,2}, C. Sumay', E. Meissl¹, S. Pontoriero¹ y A. Conte-Grand¹
¹Instituto de Geología (INGEO) y Dptos. de Geología y de Geofísica - FCEF - Universidad
Nacional de San Juan, E-mail: bcastro@iinfo.unsj.edu.ar
²CONICET

Abstract

The rhyolite dome of El Temblor, located in the southwestern flank of La Huerta range, Marayes Mining District, is a fracture controlled body intruded in the Upper Precambrian- Lower Palaeozoic crystalline basement. A K-Ar age determination allows to establish an Upper Permian age for this igneous body.

Two breccia facies, one of autoclastic nature and the other composed mainly by basement and andesite angular fragments, are spatially related with the contacts between the igneous body and the host rocks. The rhyolite has strong pervasive quartz-sericite alteration. It presents minor Au and Ag anomalies related to glassy quartz and limonite stockwork, and shows limonite staining in the oxidized cap outcrops. Gold is associated to altered pyrite that occurs disseminated as well as in the stockwork veinlets. Zn and Cu anomalies are detected in the propylitic breccia facies. Minor quartz-sulphide veins with a radial pattern appear in the basement rocks.