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Au-Cu-Ag mineralization controlled by brittle structures in Lavras do Sul Mining District and Seival Mine deposits, Camaquã Basin, southern Brazil

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ACCEPTED MANUSCRIPT

1	Au-Cu-Ag mineralization controlled by brittle structures in Lavras do Sul Mining District and
2	Seival Mine deposits, Camaquã Basin, southern Brazil
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22	
23	Abstract
24	The mineralization of the Lavras do Sul Mining District and Seival Mine are controlled by brittle
25	structures associated with the emplacement of the volcanogenic rocks and granitoids located in
26	Lavras do Sul region, southernmost Brazil. This magmatism is associated with the evolution of the
27	Camaquã Basin, an Ediacaran basin generated during the post-collisional stage of development of
28	the Dom Feliciano Belt. The regional tectonic process has led to the activation of a large-scale
29	high-angle shear zones and intense fracturing in the brittle to brittle-ductile regime. The relative
30	chronology of structures and stress-field variations were recognized through remote sensing and
31	structural data. The ore-deposits are controlled by extensional fractures and normal fault systems
32	with a N70°W/70-85°NE direction in Lavras do Sul and a N40-60°E/70-88°NW direction in
33	Seival and are disseminated or occur associated with quartz and calcite veins, respectively. We
34	made a comparison of structures going from regional scale to smaller mineralized areas. The

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