

W-Sb-Au MINERALIZATION ALONG THE XUEFENG UPLIFTING BELT IN WESTERN HUNAN, CHINA

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W-Sb-Au ore deposits have been found world wide, in south America, Europe, Asia, Australia, and south Africa. The geology of these type deposits has been summarized by Kempe(1994). The genetic problems on this type deposits have been studied by many geologists. But, it is still unwell solved for the formation of the W-Sb-Au deposits developed along the Xuefeng uplifting belt until present. The Xuefeng uplifting underwent three stages of evolution: the early extension stage followed by a compression stage, and the later reactivation stage. The W-Sb-Au mineralization might closely related to the evolution process of the Xuefeng uplifting belt. The W-Sb-Au mineralization along the belt not only differ between different aged successions, but also between individual deposits within the same succession. The formation of the W-Sb-Au deposits may associate with sedimentation, regional metamorphism and magmatic activities.