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楚雄盆地砂岩型铜矿床构造-流体耦合成矿模型 点此下载全文

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摘要:

砂岩型铜矿床是楚雄陆相红层盆地的典型矿床类型。在构造一流体一成矿体系的动力学演化中,该类矿屏用、改造成矿作用及后期断裂作用的演化过程:燕山中晚期形成煤-铜-盐"三色建造"和盆地流体;喜玛拉雅卓地流体,来自基底的富铜流体沿同生断裂(隐伏断裂)上升将一些亲铜元素从深部带入煤层而被吸附,形成富铜(C3H8-C2H6)—HS04-—HC03-型),还原性流体沿次级断裂、隐伏断裂和层间断裂及轴面变形带上升,与大气影的氧化性流体(H20-S02-C02-N2-C0- HS04-型)在砂(页)岩相遇时发生水/岩相互作用,并封闭于高孔渗的砂部的中细粒砂岩和层间断裂带中形成层状、似层状矿体;喜玛拉雅中期由于构造改造,在更次级断裂带中形成层器皱构造圈闭盆地流体一含矿岩相和构造裂隙封闭成矿流体定位成矿的产物,是铜矿源、构造与流体三者耦合既沿褶皱分布又沿含矿层定位及矿物、元素分带的主要原因。故建立了该类矿床的构造-流体耦合成矿模型。

关键词: 矿床模型 构造-流体耦合成矿 砂岩型铜矿床 楚雄盆地

 $\hbox{Coupling Tectonic-fluid Metallogenic Model for Sandstone-type Copper Deposit in Chu: China } \underline{\hbox{Download Fulltext}}$ 

## Han Runshneg

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Fund Project:

Abstract:

Coupling Tectonic-fluid Metallogenic Model for Sandstone-type Copper Deposit in the Chuxion; sheng1), ZOU Hai-jun1), WU Peng1), FANG Wei-xuan2), HU Yu-zhao1), (1.Faculty of Land and Resonant Company), FANG Wei-xuan2), HU Yu-zhao1), (1.Faculty of Land and Resonant Company), FANG Wei-xuan2), HU Yu-zhao1), (1.Faculty of Land and Resonant Company), FANG Wei-xuan2), HU Yu-zhao1), (1.Faculty of Land and Resonant Company), FANG Wei-xuan2), HU Yu-zhao1), (1.Faculty of Land and Resonant Company), HU Yu-zhao1), (1.Faculty of Land and Resonant Company), HU Yu-zhao1), HU Yu-zh University of Science and Technology; South-West Institute of Geological Survey, Geological Survey Metals Resources, Kunming 650093; 2. Geological Survey Centre for Nonferrous Metals Resources, Be copper deposit is the typical one of ore deposit species in the continental red-bed Chuxiong Basin evolution processes of tectonic-fluid-mineralization system, the formation of the kind of deposits which were sedimentation-diagenesis metallization, reformation metallization, and late faulting p three-colors sediment formations and basin fluid were formed in the Middle-Late Yanshan Period: W evolution, fold traps basin fluid was formed in Early Himalayan Period. Cu-bearing fluids from basing contemporaneous fault, and carried chalcophile elements from deep-seated to coal seam. It resulted bearing reductive fluid [H2O-SO2-CO2-CH4 (C3H8-C2H6) -HSO4--HCO3-] which ascended along secondary interlayer faults and deformation band of axial plane. High salinity and oxidative fluid (H2O-SO2deep cycle meteoric water leaching gypsum bed. The two type fluid that closed in higher porosity; reservoirs encountered in sandstone and shale and associated with water-rock interaction, then st: bodies which hosted in middle-fine sandstone could formed in flank and core of folds or interform reworking again, vein ore bodies or mineralization formed in the secondary faulting zone in the M deposit formed from an outcome that fold closed basin fluid, structural fissure and ore-bearing fa fluid. It was a coupling among the ore source, controlling tectonic and ore-forming fluid. In term deposit distribution with fold and ore-bearing strata, mineral and elements zoning were interprettectonic-fluid metallogenesis for sandstone-type copper deposit in Chuxiong Basin has been establ Model; Tectonic-fluid Coupled Metallogenesis; Sandstone-type Copper Deposit; Chuxiong Basin , China

Keywords:Deposit Model Tectonic-fluid Coupled Metallogenesis Sandstone-type Copper Deposit Ch