

Geological Characteristics and Prospecting Marks of the Xiaojianshan Gold Deposit in Shanshan, Xingjiang

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Abstract: The Xiaojianshan gold deposit in Shanshan, Xingjiang, is located in the east of the Kanggurtag gold belt which is in the Aqishan Yamansu island arc belt in the northeast of Tarim plate. It is controlled by the ductile shear zone in the south of Kushui large fault. The gold deposit is divided into altered rock type gold deposit and quartz vein type gold deposit. Three gold deposits of the large altered rock type, being occur in the contact zone of andesitic tuff with dacitic tuff, being and two quartz vein type gold deposits have been confirmed. Kanggurtag gold belt is controlled by sub-ductile shear zone of the Kushui large fault and is a middle-lower temperature hydrothermal deposit.

Key words: Kanggurtag; Xiaojianshan gold deposit; altered rock

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主要测试项目为: 1 单矿物分选 (①非金属-半金属矿物类: 石英、钾长石、火山岩基质、提纯粘土矿物等; ②金属矿物类: 铂族、自然金、自然银、深红银矿、黄铜矿等; ③稀有稀土矿物类: 锆石、斜锆石、独居石、晶质铀矿、钍石等); 2 选矿试验; 3 无污染样品加工; 4 岩矿石制片 (包体片、探针片、光片、普通薄片、生物片、砂薄片、铸体薄片等); 5 岩矿鉴定 [①薄片、光片一般鉴定; ②薄片、光片详细鉴定; ③岩组分析; ④定向薄片; ⑤油浸; ⑥粒度分析 (a 薄片粒度分析; b 筛析); ⑦显微照相; ⑧包体测温; ⑨矿物定量分析; 10 费氏台: 测定斜长石牌号、钾长石三斜度、解理夹角、消光角、多色性等光性特征]; 6 重砂鉴定 [①人工重砂鉴定 (a 一般鉴定; b 详细鉴定; c 全分析); ②天然重砂鉴定 (a 单项分析; b 简分析; c 全分析; d 特殊分析)]; 7 化学分析 (硅酸盐、碳酸盐等岩石全分析; 金、银、铜、铅、锌、锰、铁等矿石分析; 土壤样、岩屑样、基岩样多元素分析等)。

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