

## **APPLICATION OF SEISMIC EXPLORATION METHOD IN PREDICTION OF CONCEALED GOLD DEPOSIT**

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Based on a brief introduction of seismic prospecting method, the keys in every stage which should be pay attention to, was presented in applying seismic exploration in gold-deposit and other metal-deposits area, which include instrument equipment, field work methods and technological process of data processing and geologic explanation and so on. Through actual application at Wulaga gold-mine deposit in Heilongjiang province, China, a perfect result was gotten. This provide us very important geological structure information for the accurate orientation of concealed deposits. From application we got some conclusions in seismic exploration in rugged area, which are:1. The field work is the key in implementing seismic exploration. The depth of hole for exploding and the quantity of dynamite are linked tightly with the surrounding lithology.2. The effective depth of seismic exploration is not only related with the prospecting system, but also related with the prospecting parameters.3. For getting excite picture of deep structure, the processing work should be carefully done. Especially for crooked line. The anti-noise software must be used for enhancing the sign to noise ratio.4. With background knowledge of geology of working area , we can given a reasonable interpretation on the seismic profile. Combined with other geophysical method, such as TEM and structure analysis. The accurate project of well-drilling was given.