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October 28, 2008

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September 2008

An innovative mining solution

Here are some of the features and benefits of using the Thermal Fragmentation Mining Method.

Greatly reduces dilution

The extraction method produces highly concentrated ore which results in 400% to 500% less dilution compared to shrinkage mining methods. There is no wall damage caused by blast vibrations. **Cost savings compared to ore handling and treatment.**

Since less rock is extracted, important savings are realized throughout the entire chain of production. The compact size of the ore and concentration of the material brought to the processing plant increases the production capacity of existing installations and output of ounces. **Completely mechanized**

Thermal fragmentation mining methods require a three-person team per unit to carry out the entire extraction process. The mining method is fully mechanized, reducing the risk of physical injury often observed in labour-intensive shrinkage mining methods.

Lessens impact on environment Since less waste rock is extracted and development is performed directly into ore, the thermal fragmentation produces significantly less mining waste (1:5). Therefore, fewer chemical products per ounce mined are needed and fewer alterations are made to the terrain (smaller tailings and waste piles.) **Cost effective bulk sampling**

Many exploration projects, especially multiple vein deposits, are very difficult to evaluate with diamond drill holes and traditional bulk samplings necessitate major field preparation work that are costly. However, the thermal fragmentation mining process requires minimal space to bring in the equipment, minimal stripping of waste rock and dilution is significantly diminished. The resulting surface environment impacts are minimal and preparation costs are kept as low as possible. **Low cost slot raise**

By using the thermal fragmentation method, large diameter holes (30 -90 cm) can be quickly created and act as large diameter cuts when blasting drop-raises. These large cuts greatly reduce the occurrence of rock freezing following a blast and reduce the amount of explosives needed to break the rock, significantly lowering costs per meter and reducing the time needed to perform the work.

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The advertisement features a vertical layout with a gradient background from orange to yellow. At the top, it says "Special Report Business Risk" in bold, with "CANADIAN Mining Journal" below it. A central image shows a silhouette of a man in a suit carrying a briefcase and walking on a tightrope. Below this, a list of risk topics is presented. At the bottom, the FM Global logo is shown with the tagline "Insurance Evolved", and a call-to-action button with a book icon and the text "CLICK HERE TO READ".