Thermal Fragmentation Demonstration

Overview and results of Thermal Fragmentation ‘surface demonstration’ process over 4 minutes within the hardest rock....Granite

GREEN MINING TECHNOLOGY
Drilling of a pilot hole

- A 150 mm pilot hole is required to guide the burner
- Ordinary mining drill is sufficient
For production purposes, the pilot hole must be within the mineralized structure.

For openings and development work, the fragmented hole will serve as space for rock expansion after blasting.
Thermal Fragmentation process

- The burner is inserted into the pilot hole
- The burner is ignited and compressed air is added to create a thermal ‘cushion’
Burner inserted for 4 minutes
End Results
Collection of Data
Collection of Data
‘Thermal’ ore
Summary overview of process

- Pilot hole enlarged to 300 mm in 4 minutes
- Maximum width is 1200 mm (approx 10 min.)
- No angle limitation
- Little or no wall damages caused by blast vibrations
- Extracts only the mineralized structure ‘drastically reducing environmental impact’
- Creates any kind of opening faster and cheaper
- Cash cost reduction
- Reduces accidents
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