

APPENDIX D-2: Underground Rock Fragmentation Letter

To: Bob Jacko
From: Chris Hyle

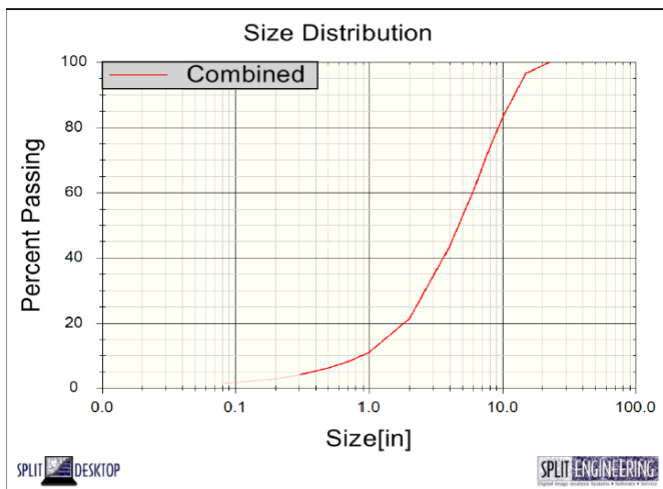
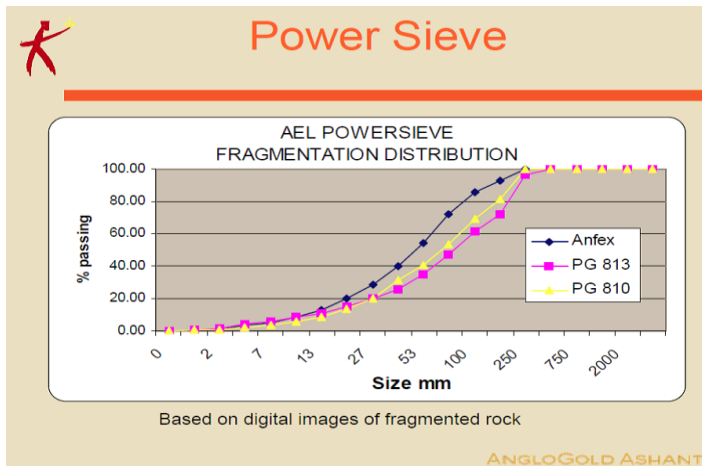
June 2, 2016

Subject: Underground Rock Fragmentation

Tintina Resources Inc. is in the early planning stages for their Black Butte Copper Mine north of White Sulphur Springs, Montana. As part of their Mine Operating Permit Application, Tintina required a fragmentation distribution for their development headings which would be used in the geochemistry model. The 16' X 16' development headings at Black Butte Copper will be drilled with 2 boom jumbos then blasted and hauled from underground with large 26 – 40 ton underground trucks.

Fragmentation from the development rounds can vary as there are a number of factors that can influence the fragmentation: hole alignment, number of holes, loading practices, operators, timing, geological conditions, etc. It is important for overall efficiency to maintain a typical fragmentation as it will improve the overall cycle time for the mine.

Two examples of underground fragmentation are shown below.



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The first graph is developed by AngloGold Ashanti while testing various explosives and the second is from a case study analyzing a top size fragmentation in a tunnel project.

These graphs are very typical of the fragmentation sizing you would expect to see in an underground mine such as Black Butte Copper.

Sincerely,

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