

Sub Surface Profiler case study

Identifying adequate mine face pre conditioning



Scanning at Site 1



Scanning at Site 2

The SSP was applied at an underground gold mine to determine effective mine face pre conditioning at two separate sites. The SSP was deployed in minutes and the results were available in real time. The scans are made using the same hardware and processing settings so that the results are comparable.

The ergonomic light weight design made this measurement particularly easy. The bright colours indicates stronger reflections within the surface under test. Reflections are caused by discontinuities in the material and changes within their material properties.

Site 1 demonstrated effective preconditioning as the results produced stonger reflections within the 1 to 3 meter range while Site 2 demonstrated inadequate preconditioning with weaker results.

AT A GLANCE

Rock Type:

Hard rock, gold, 2.2 km below surface.

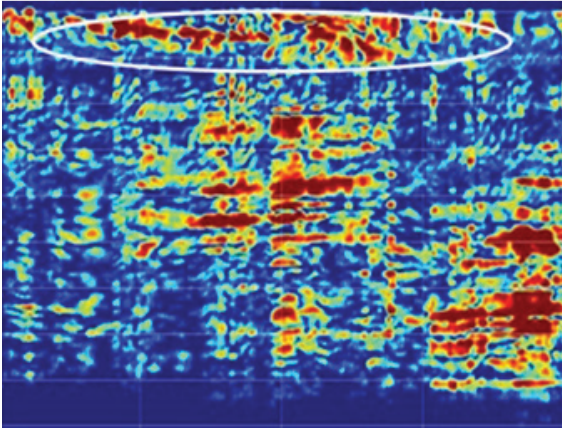
Challenge:

Identify adequate pre conditioning at mine face.

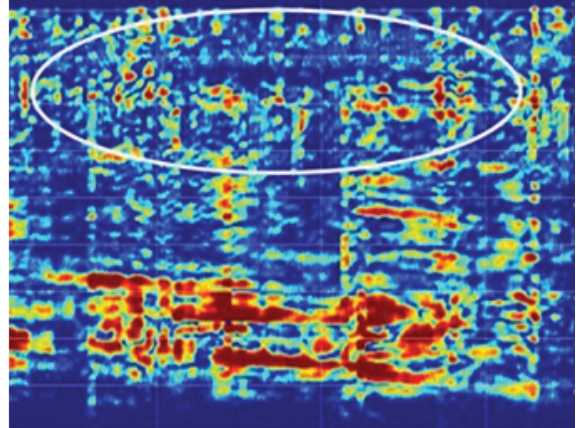
Results:

Site 1 showed adequate preconditioning while Site 2 did not.

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Site 1: Adequate pre conditioning



Site 2: Inadequate pre conditioning

ABOUT THE SUB SURFACE PROFILER

Designed specifically for the challenges faced by underground mining operations globally, the SSP improves dynamic decision making through the precise management of Fall of Ground risks, as well as the optimal use of support mechanisms in an environment where every second counts.

Its light-weight and patented ergonomic design allows for one handed operation by one person in much the same way as a paint roller. Data collected is wirelessly transmitted and processed in real time, giving instant feedback on rock structures while scanning. This is Ground Penetrating Radar. Reimagined.



ABOUT REUTECH AUSTRALIA

Our goal is to make your operation as safe and productive as possible. So we design innovative radar products that solve complex problems in simple ways. This passion drives our desire to think outside of the box; to rethink old problems and reimagine new solutions. It has led us to the SSP, a product that improves underground mining productivity and safety in a revolutionary simple way.

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