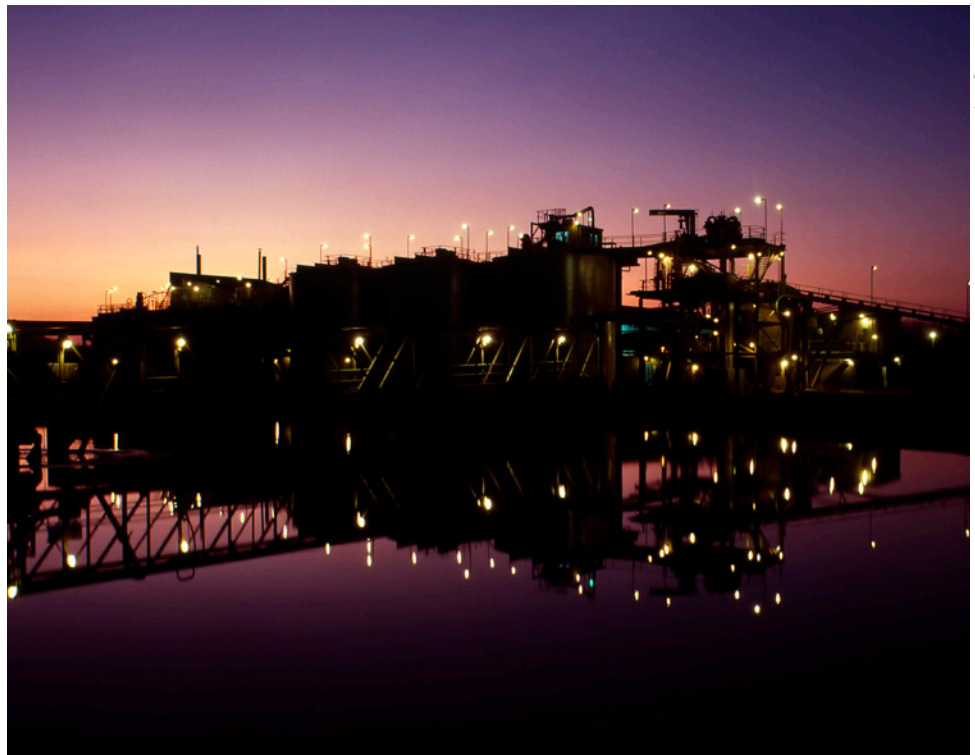
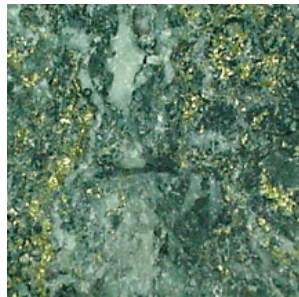


QEMSCAN[®] – Gold

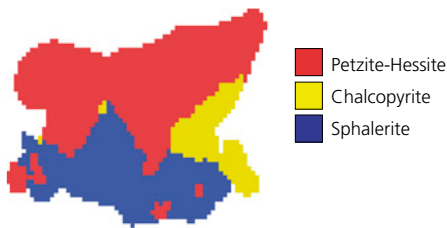
Automated Quantitative Mineralogy



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QEMSCAN® provides advanced, accurate, automated analysis of rock specimens, drill cores, tailings and plant products to maximize productivity and efficiency of the Gold exploration, mining, production and rehabilitation processes.



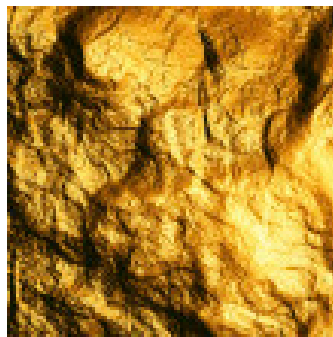
QEMSCAN® Mineral Map of a petzite-hessite particle locked with sulfides.



- Exploration
- Feasibility studies
- Gold mineralogy
- Pilot plant studies
- Ore characterization
- Mineral liberation analysis
- Concentrator optimization
- Hydrometallurgy
- Processing audit studies
- Geomaterialurgy
- Environmental studies
- Rehabilitation analysis

QEMSCAN® provides detailed analysis of gold in mineral phases including: Native Gold (Au), Electrum (AuAg), Calaverite (AuTe₂) and Petzite- Hessite (Ag₃AuTe₂).

The system can identify and quantify gold in many different textural settings including: liberated nuggets, locked inclusions and veinlet in-fills, as can be found in many different geological environments including: Kuroko-style, Archaean Greenstone, Supergene and Alluvial deposits.



QEMSCAN® uses advanced electron beam (e-beam) technology combined with high resolution BSE and SE imaging and state-of-the-art liquid nitrogen-free Energy Dispersive Spectrometers (EDS); and then integrates these using electronic control systems and the unique iDiscover™ software suite to provide a comprehensive solution capable of identifying most ore- and rock-forming minerals on a micro-scale in just milliseconds.

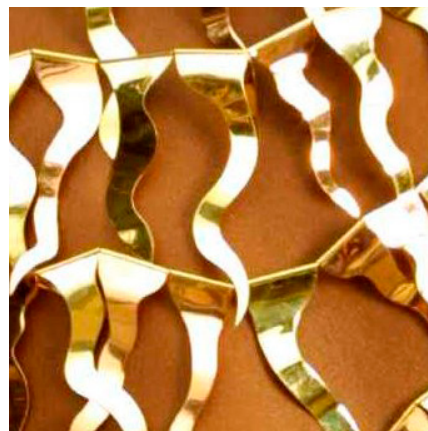
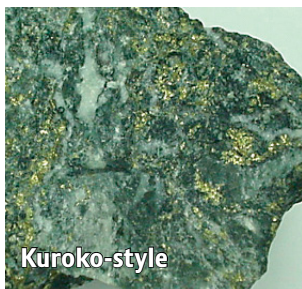
The QEMSCAN® system is able to handle a wide range of sample types, from prepared samples set in epoxy or wax, through to rough sections of rocks and other materials. This means that QEMSCAN® can be used for analyzing almost everything from core samples to soil and sand; from manufacturing products to dust.



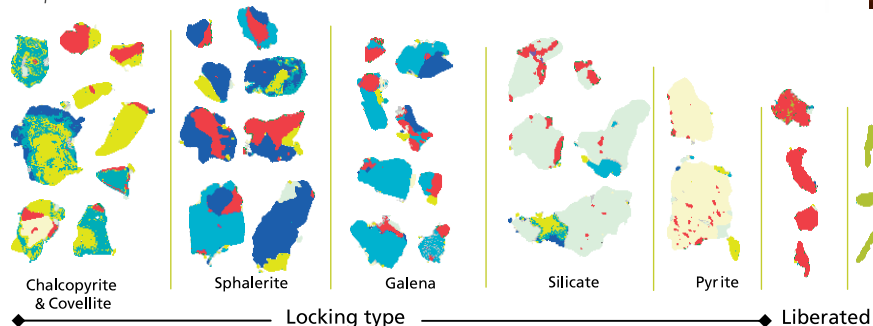
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Petzite/Hessite/Native Gold

- Petzite-Hessite
- Gold
- Chalcopyrite
- Sphalerite
- Galena
- Covellite
- Pyrite
- Silicate



+20 / -106 micron fraction



Liberation classification of gold-bearing particles from an ore deposit.



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