Integrated mineralogical datasets for geoscience

**Robertson** have provided specialist mineralogy services since our foundation in 1961. We provide expert services for conventional and unconventional hydrocarbon plays, mining, geothermal, carbon capture and storage, and environmental assessments. We deliver high quality mineralogical data as a standalone dataset or as part of a fully integrated multidisciplinary geoscience project.

**QEMSCAN® technology**

We use QEMSCAN® (Quantitative Evaluation of Minerals by Scanning Electron Microscopy) to provide quantitative mineralogical and textural datasets. This rapid and reliable analytical method can be used on most sample types including drill cuttings, mine tailings, core plugs, slabbled core, soils, river sediments, metallurgical testing, and more.

**Data outputs**

Our dedicated team of specialists use QEMSCAN® to obtain the maximum amount of information from your samples, including:

- Selection of scan types: Field Image, BMA, PMA, SMS, TMS
- Porosity, pore size distribution and anisotropy
- Grain size distribution and angularity
- Particle Size Analysis and Liberation
- Quantitative mineral identification
- Quantitative lithotyping
- Elemental deportment
- Mineral association
- Elemental assay

**Applications**

- Reservoir quality, provenance, correlation
- Ore characterization, grade and recovery
- Acid mine drainage, land contamination
- Ground-truthing geological models

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**Integrated datasets**

Integrated mineralogy, petrophysics and CCA data.

**Quantitative results**

Mining grade & recovery. Reservoir bulk mineralogy.

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**QEMSCAN® false colour mineral map**

Detailed mineralogical and textural information.
**Mineralogy Services**

**RoqScan™ real-time mineralogy analysis on location**

Our exclusive portable system RoqScan provides fast, quantitative mineralogical datasets at the wellsite or core store. Detailed mineralogical and textural data can be achieved within as little as one hour of ditch cuttings arriving at the wellsite.

**RoqScan** data can assist real-time decision making on challenges such as improved well management, improved lateral drilling, tactical positioning of fractures and validation of petrophysical interpretations.

**RoqScan Petro-Elastic Modelling**

![RoqScan Petro-Elastic Modelling](image)

We provide detailed petrographic analysis to understand the texture and diagenetic history of your core samples. This service, from sample preparation (thin sections, core samples, polished blocks) at our laboratory, to delivery of quality datasets and reports. Results can be delivered as a standalone dataset or as part of a fully integrated mineralogy or multidisciplinary project.

**Scanning Electron Microscopy & Optical Microscopy**

We provide detailed SEM and petrographic analysis to understand the texture and diagenetic history of your samples. These methods are invaluable for assessing hydrocarbon reservoir quality, as well as for assessing micro-fracture structure for unconventional, carbon capture, and geothermal exploration.

**Local Contact**

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