



Delivering Cutting Edge Technology &

Subsurface Evaluation Solutions Worldwide

DS Answer Products



Digi-Surv

On all drilling projects, boreholes are planned to maximise the intersection of subsurface structures or orebodies. This requires that the initial rig alignment is accurate. Making use of dedicated rig alignment systems is cost-effective and provides recorded assurance.

Digi-Surv provides professional surface and underground survey-as-a-service including:

- North-seeking rig-alignment
- Electronic multi-shot survey
- North-seeking gyroscopic survey



Enviro-Log

The ability to quickly and routinely acquire calibrated, repeatable data from monitoring wells has become imperative. Combining aspects of petrophysical and hydrological logging, Enviro-Log provides focused interpretation of subsurface conditions including:

- Aquifer location
- Clay mapping and typing
- Porosity
- Flow under static or induced conditions
- Hydraulic conductivity
- Water quality, temperature and conductivity
- Casing inspections and screen locations
- Open-hole condition checks



In-situ, high-precision and accuracy determination of petrophysical properties aid geoscientists in understanding the subsurface including mineralized ore bodies. Key areas in petrophysical studies include:

- Multiscale distributions
- Geospatial variations
- Elemental concentrations
- Lithology, mineralogy and formational processes
- Metamorphic processes and alteration
- Ore presence and concentrations



Tech-Log

Understanding structures and mechanical properties is vitally important to any excavation or construction project. Borehole logging and radar rapidly acquires in-situ, high-resolution data that informs:

- Fault, shear and fracture orientations and classifications
- Bedding and foliation orientations
- Fracture frequencies and ROD
- Continuous dynamic elastic moduli (calculated from density and sonic velocities)
- Site-calibrated geohazard indices



Understanding subsurface fluid distribution informs various studies associated with mine design, dewatering infrastructure and aquifer management. Technologies include Borehole Magnetic Resonance, which rapidly acquire in-situ, high-resolution data that informs:

- Aquifer location
- Flow under static or induced conditions
- In-situ porosity characterization
- Free and bound fluid volume
- Hydraulic conductivity
- Clay mapping and typing
- Wet & dry bulk densities



Expert interpretation of wireline log data is still common, however semi-automated interpretations and the application of machine learning algorithms are now integral to the informed decision-making process. Project requirements vary and include:

- Predicative lithology and assay
- Basic lithology blocking
- 3D modelling
- Joint interpretation
- Integrated resource and structural models

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As an agent & distributor for numerous leading brands across the extractives industries, Digital Surveying is the single supplier solution for your project no matter the location.

Solutions span the entire life-cycle of exploration or grade control drilling and extend into the drill and blast activities both on surface and underground. We have the expertise to put the right rig alignment, core orientation and directional survey equipment on the job and to train all stakeholders in industry-leading methodologies to ensure only the best quality performance and data are achieved.

Digital Surveying's impact extends to Al-supported models to segment rock, classify lithology and alteration, detect veins, and localize fractures.

Real time Al-derived underground advance-volumetrics and digital twins provided via data or product-as-a-service models.

