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Core Goniometry

High accuracy goniometry results obtained using unique, advanced electronic system.

Core from fractured reservoirs can yield important information regarding the fractures' contribution to production. This information includes identification and classification of fractures, fracture porosity, filling, cementation and their orientation and dip.

To extract this information, the core is logged using goniometry. Understanding the importance of these studies, PanTerra has developed a unique Electronic Core Goniometer System consisting of software, core holder and digital goniometer. This provides a range of advantages over competitive systems which are listed below:

Deliverables:

- Technical display of fractures and sedimentary planes typology and interpreted origin; true orientation and frequency in WellCAD at appropriate scale of representation.
- Reporting including statistics on natural fractures, stereonet plots, azimuth rose diagrams and structural analysis regarding the main stress regime.

Advantages:

- Extremely accurate digitising tool (i.e. 0.2 mm)
 - Allows measurement of sub-millimetre size fracture aperture;
- Compact device suitable for onsite analysis;
- Measures 1 m / 3ft of core at a time,
- On request up to 2m / 6ft;
- No influence from magnetic fields or metal;
- Easy to obtain true orientation of fractures for non-oriented core
 - Achieved by using well deviation parameters or bhi image and seismic data and/or structural maps.

