GeoConsult Pty Ltd is a progressive and multi-disciplinary company of consulting geoscientists and affiliated industry professionals offering a complete range of services in Mining and Exploration; project management, mine geology, resource analysis and geological modelling. Coal Seam Gas (CSG/CBM); project management, wells site geology and onsite desorption. Laboratory; coal quality analysis and testing, gas composition & content analysis.

**Utilisation**

GeoConsult utilises licensed digital imaging software with Slim Acoustic Scanner (SAS) data that when interpreted, provides a low cost, high technology appraisal of geotechnical conditions experienced downhole. SAS data has been in common use in the Australian mining industry for over 10 years and is widely recognised as a stand-alone wireline geophysical tool capable of detecting faults, fractures, joints and other planar defects that intersect the borehole.

**Modern Techniques**

The use of modern SAS technology combined with traditional geotechnical techniques can provide improved confidence on analysis of defects and structures that are encountered downhole.

**GeoConsult’s** depth of in-house knowledge and experience can offer quality examination and evaluation of rock mass defects to the industry. Projects are reported by using graphical representations of the SAS data, as shown in the associated images and incorporated within written technical reports.

**Analysis**

The SAS tool is particularly useful in evaluating the nature and orientation of defects in the rock mass. The manipulation of digital data allows the accurate orientation of planar features that intersect a borehole, while borehole breakout is readily identifiable allowing the measurement of in situ stress fields using 360 acoustic caliper imaging.

**GeoConsult** can undertake analysis of slimline acoustic scanner data at a fraction of the cost of on-site examination of core or underground inspection of roof, wall and floor sections.

Orientation analysis of interpreted defect data can be undertaken not only on a borehole by borehole basis, but on a group basis at local or regional scales.

Typical interpretation highlighting defects within the vicinity of a major faulted zone.