



ACOUSTIC IMAGER (TELEVIEWER) TOOL

The Acoustic Imager produces an image of the borehole wall using the travel time and amplitude of an acoustic signal transmitted and received by a rotating ultrasonic sensor in the tool. The variance of the acoustic properties of the formation and associated features enable the nature of fractures, fissures, veins, bedding planes and lithology changes to be determined.

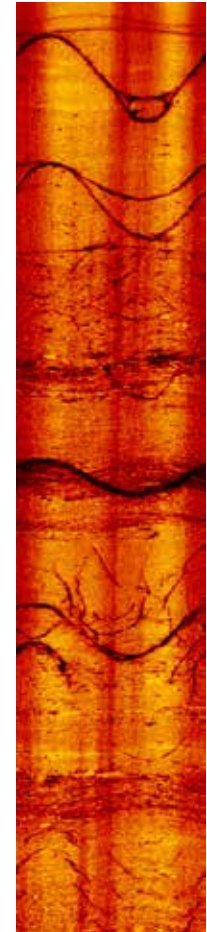
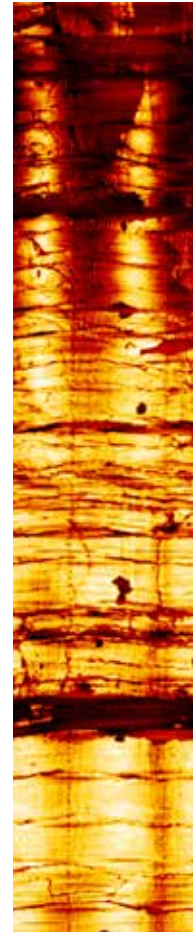
The acoustic image on the right shows both fractures and bedding.

The image is then orientated to Magnetic North and displayed as an unwrapped image log. This enables a detailed structural interpretations to be made.

Images and associated data are viewed in real time during the data acquisition. The orientation system employs a 3 axis magnetometer and 3 accelerometers.

In unstable boreholes an acoustic image can be recorded through plastic casings.

The image on the left shows an acoustic amplitude log through plastic casing. The upper section of the borehole was very broken and prone to collapse, so the borehole was lined with plastic casing and the imaging carried out through the plastic.



Specifications

Size:	1160 x 60mm
Weight:	6kg
Tilt:	0° - 90°
Azimuth:	0° - 360°
Vertical resolution:	User defined up to 0.5mm
Horizontal resolution:	User defined up to 288 measurements/revolution
Rotation speed:	up to 10 revolutions per second
Caliper resolution:	0.08mm
Max. temperature:	80°C
Max. pressure:	20MPa

Logging Conditions

0.5 - 2 m/min
Centralised

Borehole Conditions

Minimum diameter 76mm
Maximum diameter 500mm
Cored or rotary drilled boreholes
Fluid or mud filled
Open hole or Plastic cased