



## ACOUSTIC TELEVIEWER

The latest generation of acoustic televiewers, the stackable QL-series ABI40-2G utilizes ultrasonic pulses to image the borehole wall face in fluid-filled borehole conditions.

Advanced sensor technology enables this slim-line televiewer to achieve superior image resolution by focusing the acoustic beam from a fixed transducer and a rotating reflective surface.

The flexibility to change the rotation speed, sample rate, digitizing window and gain control ensures high quality image resolution over a large effective borehole diameter. Acoustic images are directionally oriented with an onboard 3-axis fluxgate magnetometer and 3 accelerometers.

Sophisticated data analysis provides accurate and precise borehole fracture information and uses it to generate a digital virtual core package, as well as acoustic caliper data.

### APPLICATIONS:

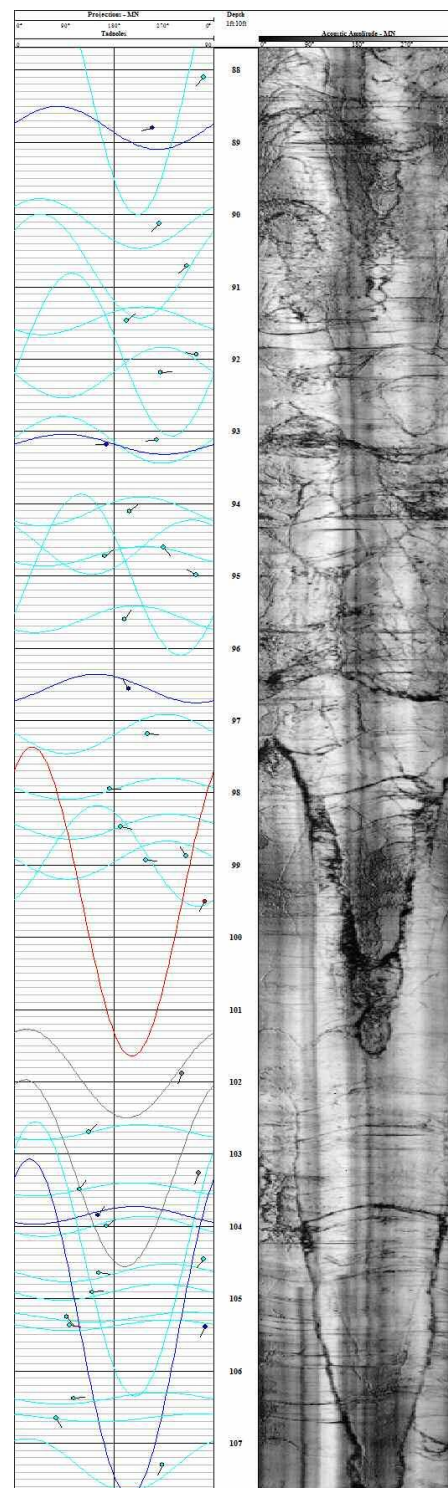
- + Fracture orientation and evaluation
- + Thin bed detection
- + Borehole diameter
- + Bedding dip
- + Lithological characterization
- + Casing inspection
- + Borehole deviation

### PROBE SPECIFICATIONS:

|                          |                                                                         |
|--------------------------|-------------------------------------------------------------------------|
| Diameter:                | 40 mm (1.6 in.)                                                         |
| Length:                  | 1.60 m (5.25 ft.)                                                       |
| Max Temperature Rating:  | 70°C (158°F) (High-Temp Options Available)                              |
| Max Pressure Rating:     | 200 bar (2900 psi)                                                      |
| Borehole Diameter Range: | 2.0 – 20 in.; Dependent on Fluid Conditions                             |
| Logging Speed:           | 3 – 20 ft/min; Dependent on Resolution, Wireline, and Borehole Diameter |

### SENSOR SPECIFICATIONS:

|                       |                                                       |
|-----------------------|-------------------------------------------------------|
| Acoustic Sensor:      | Fixed Transducer & Rotating Focusing Mirror           |
| Focusing:             | 3" or 6"                                              |
| Frequency:            | 1.2 MHz                                               |
| Rotation Speed:       | Up to 35 Revolutions per Second                       |
| Azimuthal Resolution: | 72, 144, 216, 288, 360 Samples per 360°; user defined |
| Caliper Resolution:   | 0.08 mm (0.003 in.)                                   |
| Inclination Accuracy: | ± 0.5 degree                                          |
| Azimuth Accuracy:     | ± 1.2 degree                                          |



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