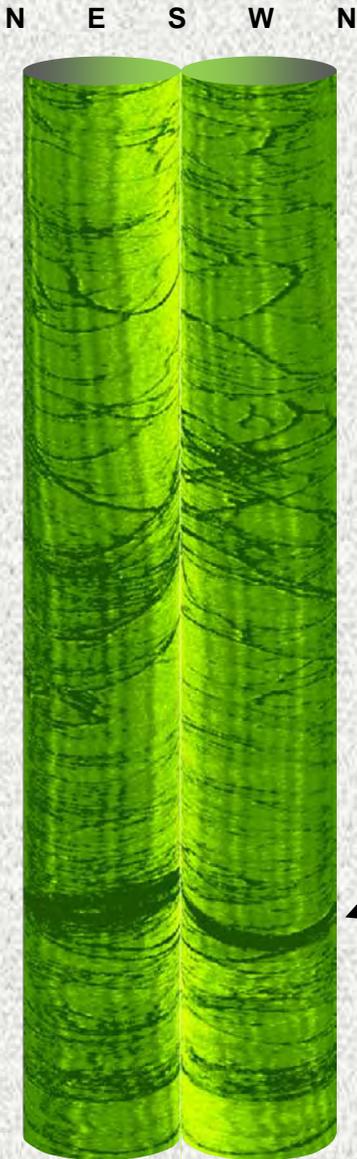


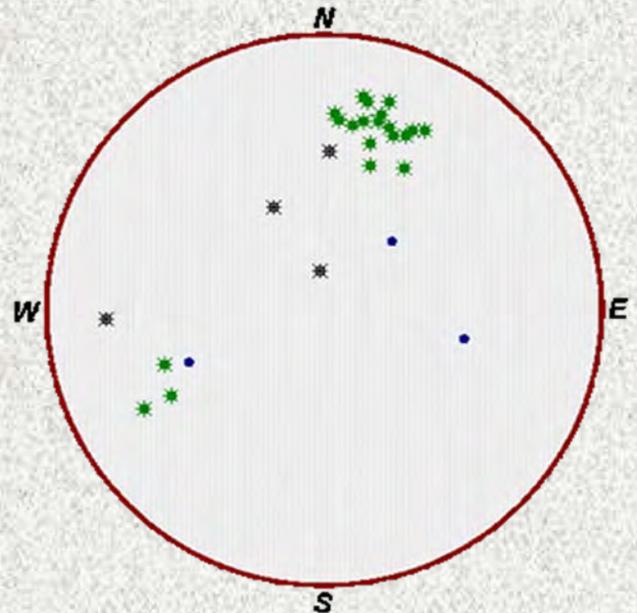
Geophysics and Geology

Borehole Acoustic Televiewer



The Acoustic Televiewer (ATV) log provides a high resolution sonic image of the borehole wall. The tool consists of an ultrasonic transducer coupled with a downhole inclinometer. ATV tools are used to generate an oriented image of seismic velocity variation and reflected wave amplitude. These images can be further processed and interpreted to reveal the orientation of fractures, joints and bedding surfaces. The ATV log is useful for delineating strata and fracture attitudes, and can also be used to evaluate borehole deviation and eccentricity.

The ATV log is extremely useful where the orientation of failure surfaces, fractures and bedding are critical for design. The log can reduce investigation costs by negating the need for oriented core or manned-hole logging in large-diameter borings, and the logs can be acquired through drilling fluid (fluid-filled holes are required for these logs). The generated image is extremely detailed, with millimeter resolution, and can be presented as a flat, "unwrapped" diagram or as a 3-D "pseudo-core." Attitudes of features may also be presented on stereonet plots to aid slope and foundation design.



More information on acoustic televiewer logs is available from the Federal Highway Administration at the following link:

<http://www.cflhd.gov/resources/agm/geoApplications/BoreholeMethods/1043AcousticLogging.cfm#10434>