益 捷 集 團
Waterland Group

益 捷 探 測 工 程 有 限 公 司
Waterland Detection Engineering Ltd.

Geophysics Survey

PS Suspension Logging

The PS Suspension probe provides high-resolution shear-wave and compressional velocity data in rock and soils at depths up to 1000m from measurements within a single borehole. It operates using indirect-excitation rather than mode conversion as in a conventional sonic.

Measurements

- Compressional-wave velocity (P wave)
- Shear-wave velocity (S wave)

The probe contains a unique-design powerful hammer source and two receivers, separated by acoustic damping tubes. To acquire data, the probe is stopped at the required depth and the source is fired under surface command.

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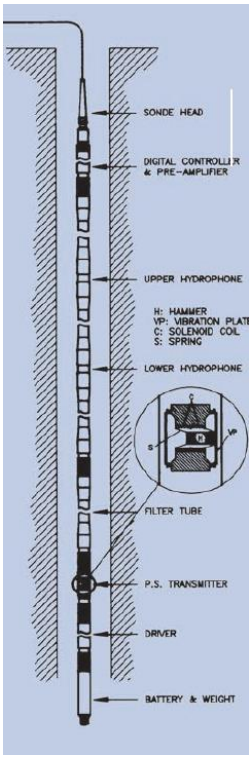
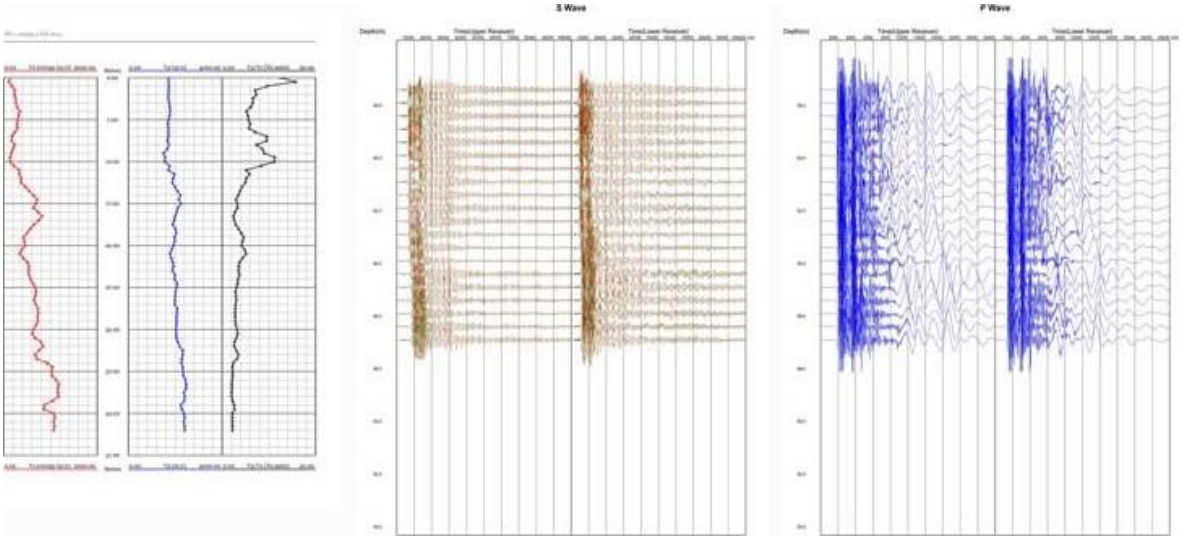


Applications

- Engineering
- Rock strength and elasticity
- Correction of seismic velocity

Features

- High-energy shear-wave source has typically 20x power of conventional sonic probes
- Low-frequency measurement, more representative of engineering situations
- Stacking of multiple shots
- Probe separates for shopping
- Real-time wavelet (wiggle) display



Operating Conditions

Borehole type: open-hole, water-filled (ID80 or above)

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