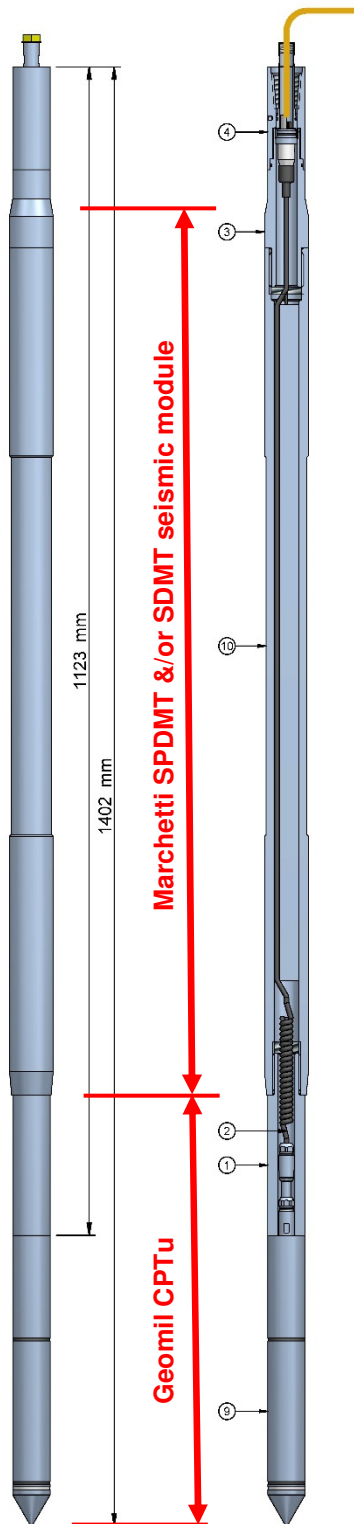




## EXPLANATION SHEET

## SEISMIC CPTu (fixed interval)

4 March 2021



### SDMT - Vs

Top Sensor

Electronics

Bottom Sensor

### SPDMT - Vs & Vp

s wave

p wave

IGS uses the latest “fixed interval” seismic profiling equipment. This is a quantum leap in data reliability compared to traditional Seismic CPT methods. Made possible by cooperation between two of our valued suppliers, Marchetti and Geomil (see left figure).

Shear Wave Velocity data processing is now:

- a) Automatic – not reliant on post-processing, judgment, “poetic guesswork”, value judgements.
- b) Immediate – strike the blow and see the results.
- c) Checkable – strike a second and third (etc) blow and check repeatability, in real-time, before pushing deeper.
- d) Unarguable – velocity is the time it takes for the same signal to pass two sensors spaced a fixed distance apart.
- e) Simple – instead of a page full of wiggly lines and office-based interpretation, you get a simple set of numbers and a plots vs depth of the same, immediately. See right figure.

