



SBS1000 | P-Wave Source

The borehole source SBS1000 is designed for P-wave tomography between boreholes up to 1000 m depth. It can be used for high resolution surveying for CO₂ and nuclear storage monitoring, mining shallow gas and the investigation of geothermal reservoirs. The SBS1000 consists of three high-voltage tubes connected by reinforced hoses and a surface control unit. The downhole source and the surface control unit communicate via standard 4-conductor logging cable.



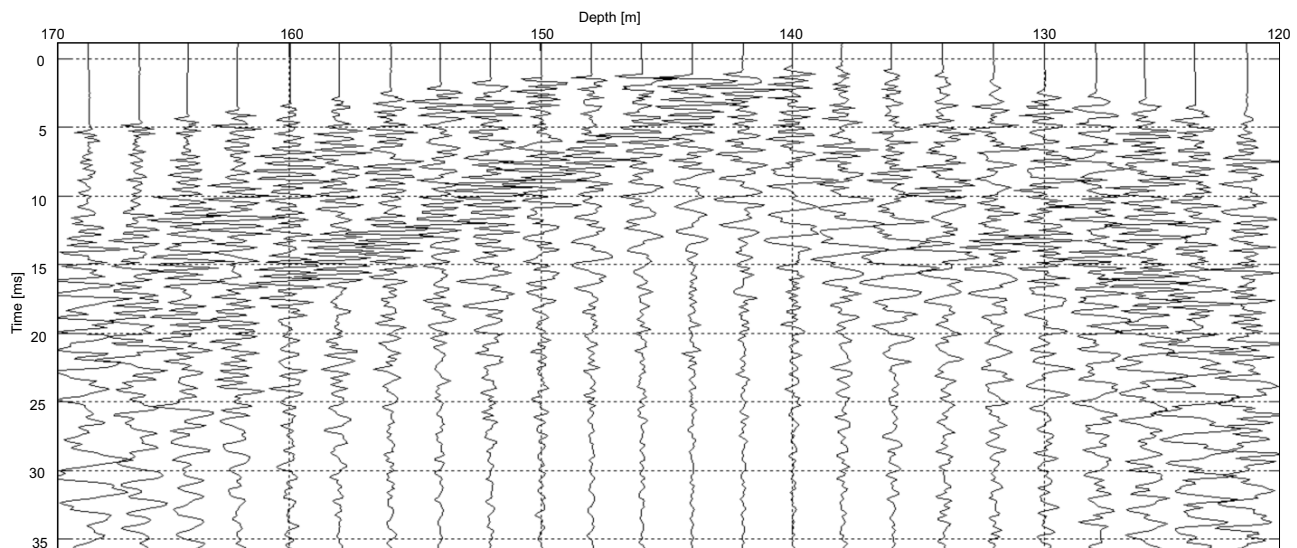
Technical Details

Generated wave types: P-wave
Operational depth: Up to 1000 m
Impulse voltage: 3200 V
Shot release: Single or Auto
Repetition rate: Every 30 sec
Signal frequencies: Up to 5 kHz (depending on geology and borehole distance)
Power supply at surface: 230 VAC
Source diameter: 70 mm
Total source length: 4.30 m
Source length of each high-voltage tubes: 1.02 m (with 0.53 m connecting hoses)
Borehole diameter: Min. 80 mm
Signal transmission: 4-conductor logging cable
Communication: PCL boards
Cable head: GO-4
Special features: Test trigger, emergency OFF button, power consumption/voltage/communication control, impulse counter

P-wave source SBS1000 with tripod, logging winch and surface control unit.

Data Example

The record shows a crosshole data example with a shot depth of 144 m and receivers placed between 168 and 122 m depth.



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