

NEW

- LAND
- ↓ DOWNHOLE
- ☺ SEABED
- ≡ MARINE

SigmaWave

DAS Seismic Solution



Ahead of the CurveSM

SigmaWave

Distributed Acoustic Sensors (DAS) are a revolutionary photonic sensing technology which converts an optical-fiber into a linear array of discrete vibration sensors.

Benefits of DAS technology

- Non-intrusive due to the small size - ideal for permanent installation
- High pressure (up to 30 kpsi) and high temperature resistance (up to 300 degC) with no in-well power
- Quickly acquire a large amount of data with long antenna (up to 10 km)
- Improved spatial sampling (down to 0.67 meter)
- Lower cost and easier permanent deployment
- Combinable with conventional electronic based sensing and measurement systems

Applications

- 3D/4D VSP on permanently installed fibers
- VSP on permanently installed fiber and on hybrid wireline



The
Fiber
is the
Sensor

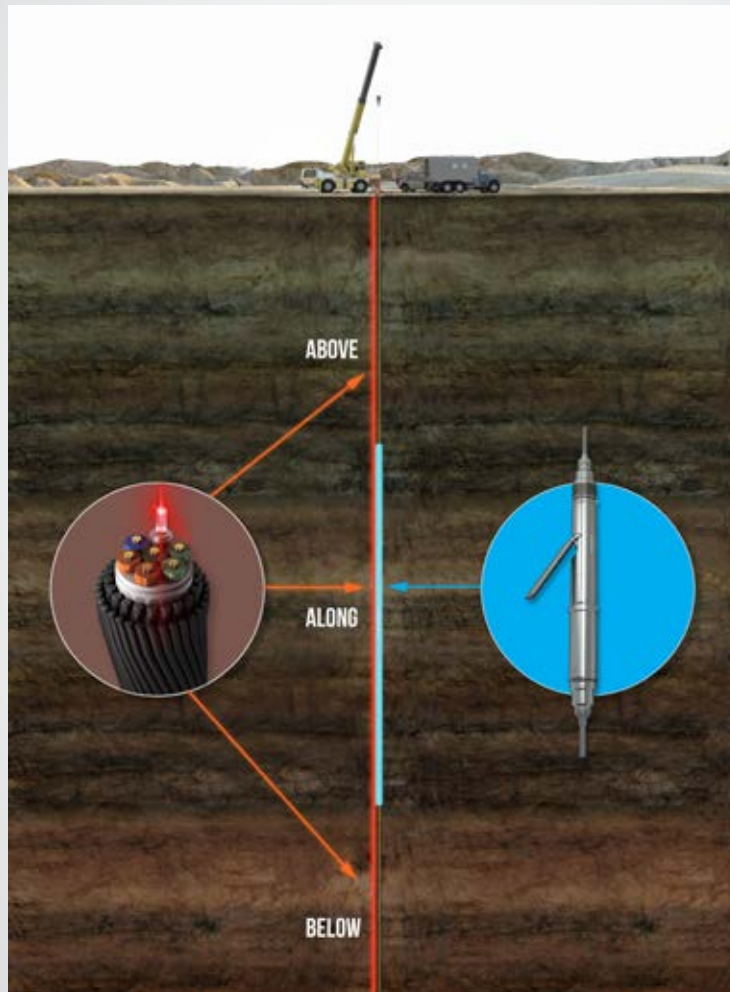
// THE DAS SOLUTION FOR SEISMIC

- Fully integrated source management, compatible with any type of seismic source
- Real-Time seismic data visualization and advanced quality control
- Real-Time SEG-Y generation
- Combinability with Sercel downhole geophone arrays for hybrid combination



// IMPROVED DATA QUALITY

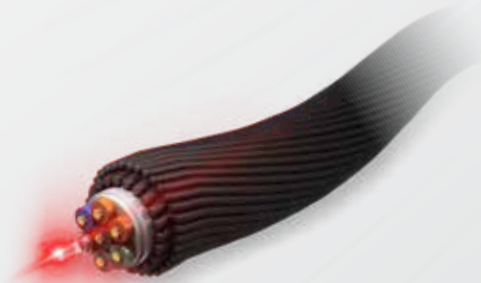
- User selectable gauge length for optimized seismic survey
- Hybrid solution capability via combination with Sercel downhole geophone arrays-adding in high-sensitivity and 3C geophone measurements where it is necessary
- Availability of custom De Regt DAS cables (wireline and surface)
- High-sensitivity fiber option
- Availability of custom tubing encapsulated fiber cables for permanent installation



// THE MOST RELIABLE SOLUTION

- Sercel reputation in seismic equipment; field proven WaveControl and WaveLab II front end
- Fotech expertise in DAS technology; field proven system stability
- Ruggedized field worthy packaging





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