MAXIWAVE

100-LEVEL DIGITAL DOWNHOLE SEISMIC ARRAY

- **1.5 km coverage**
- **Up to 100 levels**
- **For large three dimensional VSP, Walkaway VSP, Crosswell Tomography or microseismic monitoring**

Sercel

Ahead of the Curve℠

MaxiWave

Rackable electronic and seismic cartridge in one, for fast and easy handling

3 Components 15 Hz Fixed Seismic Cartridge

Up to 100 digital levels

A new digital VSP tool designed by Sercel to answer the needs of today's downhole seismic market.

- Up to 100 stations with a maximum of 15-meter spacing – 1.5 km coverage
- For most uses this means one location for the MaxiWave minimizing coupling and handling problems
- The MaxiWave tool configuration can be changed to fit the specific needs of the survey
- The telemetry rate of the MaxiWave on a standard wireline cable is 3.5 Mbps (7 times usual available telemetry rate)
- The MaxiWave is available as a pre-connected string on a drum, minimizing deployment effort
- The MaxiWave allows full testing while deployed
- All levels of the tool are interchangeable for ease of maintenance

Historically, high-effort downhole seismic surveys have attracted excessive costs due to excessive rig time during deployment, tool reliability problems and the lost time needed to move the tool from one location to another. The MaxiWave was designed specifically to overcome these problems with the most efficient tool available today.

For large three dimensional VSPs, Walkaway VSPs, Crosswell Tomography or microseismic monitoring, the MaxiWave offers technology-driven productivity.

The string can be separated as individual levels

Preliminary Specifications

General Features

Up to 100 levels

Intertool length:	15 m (50 ft.) typical 30 m (100 ft.) max
Wireline length:	3,000 m (10,000 ft.) typical 7,000 m (23,000 ft.) max
Pressure rating:	1,000 bars (15,000 PSI)

Two fully interchangeable electronic configurations

“Low” temperature version	125°C (257°F) continuous operations
	150°C (302°F) for a limited time
“High” temperature version	175°C (347°F) continuous operations

Electronic Digitizer

3 low noise Geophone channels

Geophones: OYO SMC1850

20 and 40 dB programmable gains

24 bits Delta-Sigma A/D converters

Sample rates : 4, 2, 1, $^1/_2$, $^1/_4$ ms

Geophone pulse and impedance tests

Control of motor opening

Electronic Telemetry

High-speed mono downhole transmission

High data rate transmission (3.5 Mbits/s for 10,000 ft. cable)

Error correction code for error-free transmission

Fully synchronized from surface

Compatible with GeoWaves surface equipment

Mechanical

Tool length:	425 mm ($16^3/_4$ in.)
Tool diameter:	85 mm ($3\ ^1/_3$ in.)
Tool weight:	6.5 kg (14.3 lbs.)
Material:	Titanium
Locking force ratio:	4 : 1
Locking range:	230 mm (9 in.) casing max.

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