

High pressure & high temperature downhole seismic tool designed for optimal reliability.



- ▼ Working temperature up to 180°C continuously (356°F), without active cooling.
- ▼ Working pressure up to 1,800 bar (27,000 psi)
- ▼ Independent power supply and telemetry - on each level - preventing from full breakdown

Technical specifications

GEOREC is a downhole digital tool designed for seismic acquisition in HP & HT conditions.

Each GEOREC single level includes 3 fixed or gimballed geophones, with pressure and temperature gauges, and is provided with its own power supply and telemetry.

Up to 48 GEOREC levels can be successively connected with a 7 conductors standard cable.

▼ Mechanics

Maximum temperature	<i>180°C continuously (356°F)</i>
Maximum pressure	<i>1,800 bar (27,000 psi)</i>
Maximum number of levels	<i>48</i>
Diameter	<i>80 mm (3.15")</i>
Total tool length	<i>1,400 mm (55")</i>
Compatible casing diameter	<i>3.75" to 16"</i>
Locking force ratio	<i>5:1 to 20:1</i>
Maximum cable length	<i>6,000 m</i>
Distance between levels	<i>no limitations</i>



▼ Electronics

Cable equalization	<i>Fully automatic</i>
Date rates	<i>1.5 Mbits/s (on 6000 m cable)</i>
Sampling rates	<i>0.25, 0.5, 1, 2 ms</i>
Input noise	<i>0.1µV rms</i>
Gain settings	<i>12, 24, 36, 48 dB</i>
Dynamic range	<i>120 dB</i>
Digitalization	<i>24 bits</i>



▼ Sensors

Fixed	<i>Omni 2400 15Hz</i>
Gimballed	<i>On request</i>

