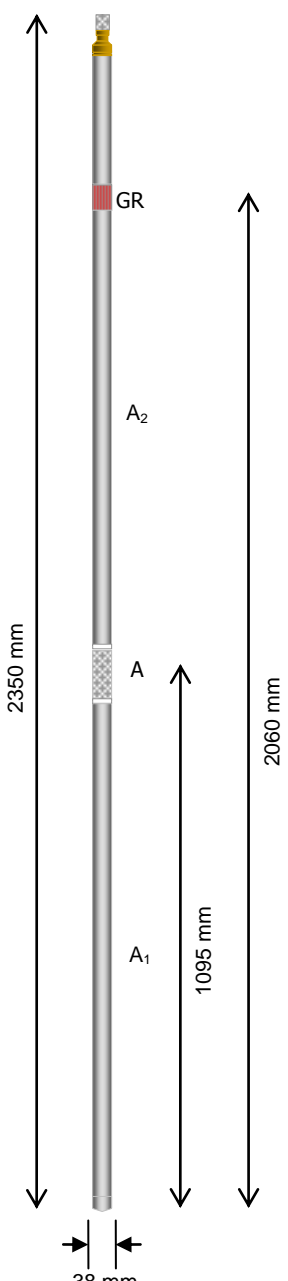
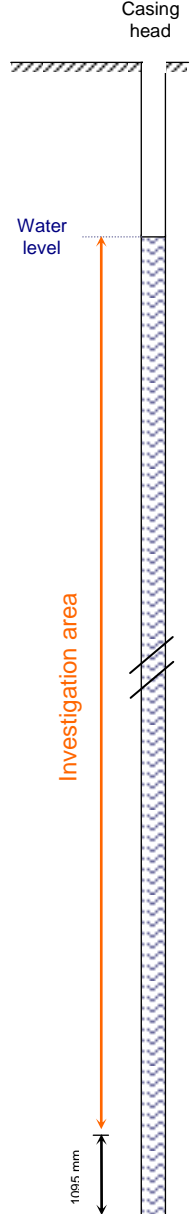


## TECHNICAL SHEET

<b>ELECTRIC</b>	<b>FOCUSED</b>	<b>GUIP</b>
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<p style="text-align: center; background-color: #cccccc; margin: 0;"><b>Generalities</b></p> <p><b>Principle</b> The probe includes a central current-source electrode between two guard electrodes, maintained at the same potential. Current from the center electrode is constrained to a thin disk by the presence of the guards and returns to the cable armor above a 10m insulated section.</p> <p><b>Results</b> Apparent formation resistivity variations.</p> <p><b>Interest</b> The guard log replaces the classic ELOG in conditions of low mud resistivity, important mud cake and high formation resistivity. Lithological identification, Indication of permeable zones and porosity, indication of fractures etc...</p> <p><b>Option</b> Natural gamma sensor.</p>														
<p style="text-align: center; background-color: #cccccc; margin: 0;"><b>Constraints / borehole</b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">filing up</td> <td style="width: 33%;">: <input checked="" type="checkbox"/> water</td> <td style="width: 33%;">: <input checked="" type="checkbox"/> mud</td> <td style="width: 33%;">: <input type="checkbox"/> dry</td> </tr> <tr> <td>casing</td> <td>: <input checked="" type="checkbox"/> PVC screen</td> <td>: <input type="checkbox"/> steel</td> <td>: <input checked="" type="checkbox"/> open</td> </tr> <tr> <td>borehole</td> <td>: <input checked="" type="checkbox"/> cored</td> <td>: <input checked="" type="checkbox"/> destructive</td> <td></td> </tr> </table> <p>max. depth : 2000 m effective diam. : 50 mm – 200 mm temperature : 0°C – 70°C max. pressure : 200 MPa</p>	filing up	: <input checked="" type="checkbox"/> water	: <input checked="" type="checkbox"/> mud	: <input type="checkbox"/> dry	casing	: <input checked="" type="checkbox"/> PVC screen	: <input type="checkbox"/> steel	: <input checked="" type="checkbox"/> open	borehole	: <input checked="" type="checkbox"/> cored	: <input checked="" type="checkbox"/> destructive			
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borehole	: <input checked="" type="checkbox"/> cored	: <input checked="" type="checkbox"/> destructive												
<p style="text-align: center; background-color: #cccccc; margin: 0;"><b>Technical specifications</b></p> <p><b>Dimensions</b></p> <ul style="list-style-type: none"> <li>• length : 2350 mm</li> <li>• diameter : 38 mm</li> <li>• weight : 7 Kg</li> </ul> <p><b>Elements</b></p> <ul style="list-style-type: none"> <li>• 1 injection electrode : A</li> <li>• 2 guard electrodes : A<sub>1</sub> &amp; A<sub>2</sub></li> <li>• 1 natural gamma ray sensor : GR</li> </ul>														

### Records / Measures

<p><b>Records</b></p> <ul style="list-style-type: none"> <li>• Tool : <input checked="" type="checkbox"/> centered    <input type="checkbox"/> off-centered</li> <li>• Measure : <input checked="" type="checkbox"/> down    <input checked="" type="checkbox"/> up</li> <li>• Rec. speed : 5 m/min</li> </ul>	<p><b>Measurements</b></p> <ul style="list-style-type: none"> <li>• Range : 0 - 25 kΩ.m</li> <li>• Horiz. resolution : 0,2 % of full scale</li> <li>• Vert. resolution. : 10 cm</li> </ul>
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Example

