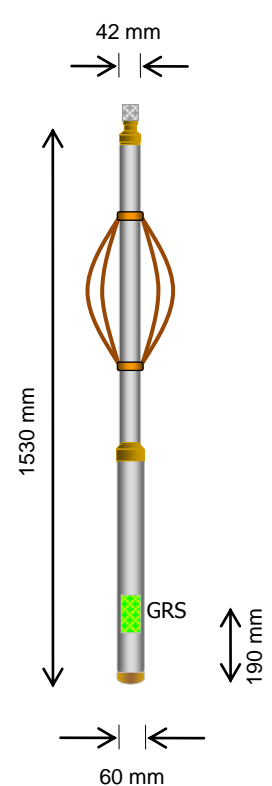
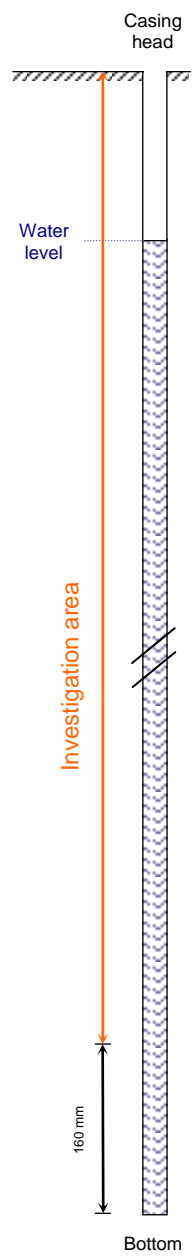


TECHNICAL SHEET

NUCLEAR	SPECTRAL GAMMA	GRS
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<p style="text-align: center; background-color: #cccccc; margin: -10px -10px 10px -10px;">Generalities</p> <p>Principle Gamma photons produced by radioactive decay of unstable isotopes create light emissions in the gamma scintillation detector. This amplitude of the pulses depends on the photon energy. The processing of the data is made by Full Spectrum Analysis (FSA). First each spectrum in a dataset is 'stabilized' and then each stabilized spectrum is convoluted into concentrations of naturally occurring radionuclides (⁴⁰K, ²³⁸U and ²³²Th).</p> <p>Results Concentrations of the natural emitters ⁴⁰K, ²³⁸U and ²³²Th).</p> <p>Interest Lithology determination, mineral detection, uranium potential, sedimentology, improved shale content computation, well correlation, identification of potential reservoir rocks etc...</p>														
<p style="text-align: center; background-color: #cccccc; margin: -10px -10px 10px -10px;">Constraints / borehole</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">filling 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 checked="" type="checkbox"/> dry</td> </tr> <tr> <td>casing</td> <td>: <input checked="" type="checkbox"/> PVC</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. : 75 mm – 300 mm temperature : 0°C –70°C max. pressure : 200 bars</p>	filling up	: <input checked="" type="checkbox"/> water	: <input checked="" type="checkbox"/> mud	: <input checked="" type="checkbox"/> dry	casing	: <input checked="" type="checkbox"/> PVC	: <input type="checkbox"/> steel	: <input checked="" type="checkbox"/> open	borehole	: <input checked="" type="checkbox"/> cored	: <input checked="" type="checkbox"/> destructive			
filling up	: <input checked="" type="checkbox"/> water	: <input checked="" type="checkbox"/> mud	: <input checked="" type="checkbox"/> dry											
casing	: <input checked="" type="checkbox"/> PVC	: <input type="checkbox"/> steel	: <input checked="" type="checkbox"/> open											
borehole	: <input checked="" type="checkbox"/> cored	: <input checked="" type="checkbox"/> destructive												
<p style="text-align: center; background-color: #cccccc; margin: -10px -10px 10px -10px;">Technical specifications</p> <p>Dimensions</p> <ul style="list-style-type: none"> • length : 1530 mm • diameter : 60 mm • weight : 7 kg <p>Elements</p> <ul style="list-style-type: none"> • 1 natural gamma sensor : GRS 50 mm x 25 mm NaI(Tl) scintillator + Photo-multiplier 														

Records / Measures

<p>Records</p> <ul style="list-style-type: none"> • Tool : <input checked="" type="checkbox"/> centered <input type="checkbox"/> off-centered • Measure : <input checked="" type="checkbox"/> down <input checked="" type="checkbox"/> up • Rec. speed : 1 to 1.5 m/min 	<p>Mea</p> <ul style="list-style-type: none"> • Energy rate : 60 to 3 060 keV • Dead time : 4 μs • Vert. resolution : 10 cm
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Example

