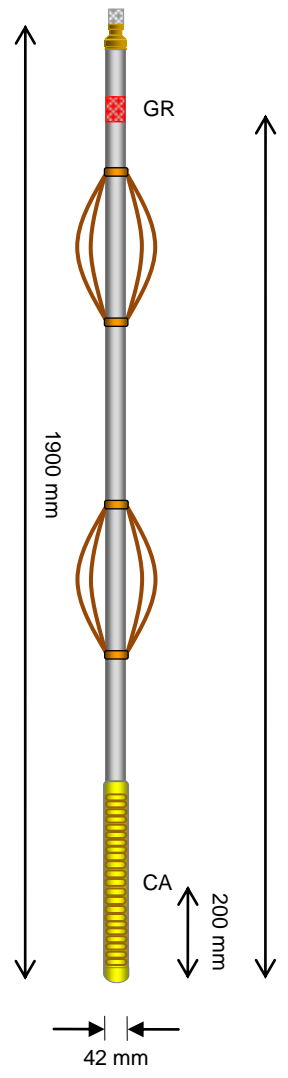
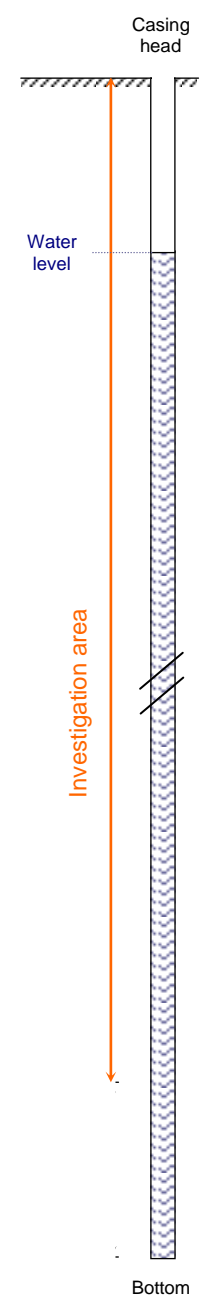


TECHNICAL SHEET

| | | |
|------------------|-----------------------|--------------|
| MAGNETISM | SUSCEPTIBILITY | MAG42 |
|------------------|-----------------------|--------------|

| | | | | | | | | | | | | | | |
|---|---|--|--|---|--------|---|--------------------------------|--|----------|---|---|--|--|--|
| <p style="text-align: center; background-color: #cccccc; margin: 0;">Generalities</p> <p>Principle An oscillating magnetic field in the probe produces a current within a toroidal zone in the surrounding formation. The oscillating current produces a secondary field that is detected by the receiver coils. The 'in-phase' signal is a measure of susceptibility.</p> <p>Result Magnetic susceptibility of the formations.</p> <p>Interest The tool is based on the industry-standard Bartington Instruments™ product. It is a low-frequency device and is specifically designed for mining applications. The probe has excellent stability against pressure and temperature variations. The probe finds particular use for uranium where the log shows a negative correlation with uraniferous compounds. Susceptibility logs are highly sensitive to its oxidation state. The frequent occurrence of iron with other redox-sensitive metals can provide a valuable indicator of the presence of other minerals.</p> <p>Option Natural gamma sensor.</p> |  |  | | | | | | | | | | | | |
| <p style="text-align: center; background-color: #cccccc; margin: 0;">Constraints / borehole</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">filling up</td> <td style="width: 10%;">: <input checked="" type="checkbox"/> water</td> <td style="width: 10%;"><input checked="" type="checkbox"/> mud</td> <td style="width: 10%;"><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. : 50 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: 0;">Technical specifications</p> <p>Dimensions</p> <ul style="list-style-type: none"> • length : 1900 mm • diameter : 42 mm • weight : 6 kg <p>Elements</p> <ul style="list-style-type: none"> • 1 coils array (1.439 kHz) : CA • 1 natural gamma sensor : GR | | | | | | | | | | | | | | |

| Records / Measures | |
|---|--|
| <p>Records</p> <ul style="list-style-type: none"> • Tool : <input checked="" type="checkbox"/> centered <input checked="" type="checkbox"/> off-centered • Measure : <input checked="" type="checkbox"/> down <input checked="" type="checkbox"/> up • Rec. speed : 5 m/min | <p>Measures</p> <ul style="list-style-type: none"> • Range : 10^{-5} to 10^{-1} cgs • Resolution : 10^{-5} cgs • Vert. resolution : 25 mm |

Example

