

TECHNICAL SHEET

NUCLEAR	GAMMA RAY	NGAM
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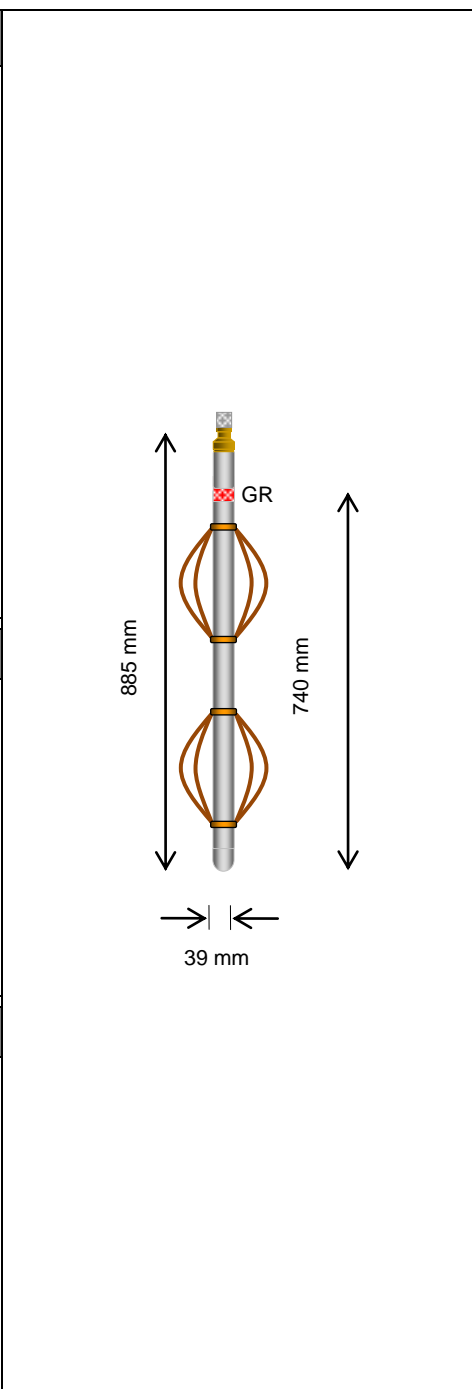
Generalities

Principle
The probe is based on scintillation gamma detector. The detector measures the natural gamma radiation release from potassium and the decay products of uranium and thorium in the borehole.

Result
Depth-based curve of natural gamma radiations.

Interest

- Sedimentary context: differentiation of lithology based on their clay content.



Constraints / borehole

- | | | | |
|------------|---|---|--|
| filling up | : <input checked="" type="checkbox"/> water | <input checked="" type="checkbox"/> mud | <input checked="" type="checkbox"/> dry |
| casing | : <input checked="" type="checkbox"/> PVC | <input checked="" type="checkbox"/> steel | <input checked="" type="checkbox"/> open |
| borehole | : <input checked="" type="checkbox"/> cored | <input checked="" type="checkbox"/> destructive | |
- max. depth : 2000 m
 effective diam. : 50 mm – 800 mm
 temperature : 0°C – 65°C
 max. pressure : 200 bars

Technical specifications

- Dimensions**
- length : 885 mm
 - diameter : 39 mm
 - weight : 5 kg
- Elements**
- 1 natural gamma sensor : GR
50 mm x 25 mm NaI(Tl) scintillator

Records / Measures

- Records**
- Tool : centered off-centered
 - Measure : down up
 - Rec. speed : 5 m/min

- Measures**
- Accuracy : 1 API
 - Vert. resolution : 5 cm

Example

