semm Logging
WELL LOGGING SERVICES

TECHNICAL SHEET

TRAJECTOMETRY	MAGNETO	BDVG

Generalities

Principle
The tool is buil around a 3-axis magnetometer and a 2-axis accelerometer. It provides directional data (azimuth and dip) at any depth of the borehole.

Result
Trajectometry of the borehole, calculation of the deviation and offset at any depth.

Interest
Accurate positioning of the borehole, compliance of the borehole to the drilling specifications.

Option
Natural gamma sensor.

Constraints / borehole

filling up	:	☒ water	☒ mud	☒ dry
casing	:	☒ PVC	☐ steel	☒ open
borehole	:	☒ cored	☒ destructive	

max. depth	:	2000 m
effective diam.	:	55 mm – 300 mm

temperature	:	0 °C – 70 °C
max. pressure	:	200 bars

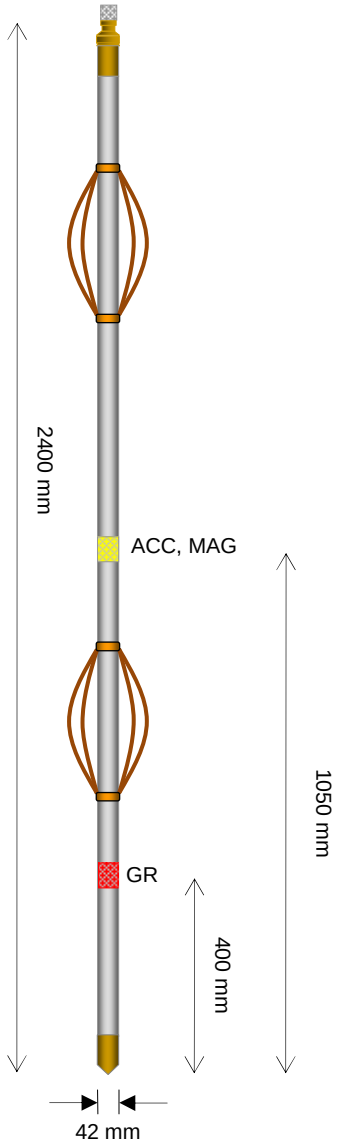
Technical specifications

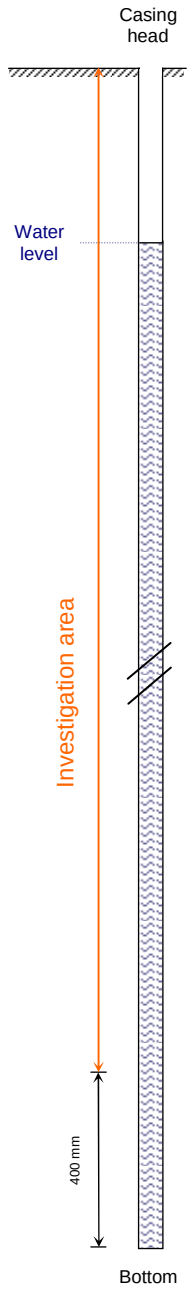
Dimensions

- length : 2100 mm
- diameter : 42 mm
- weight : 6 kg

Elements

- 1 magnetometer 3 axis (x,y,z) : MAG
- 1 accelerometer 2 axis : ACC
- 1 natural gamma sensor : GR





Records / Measures

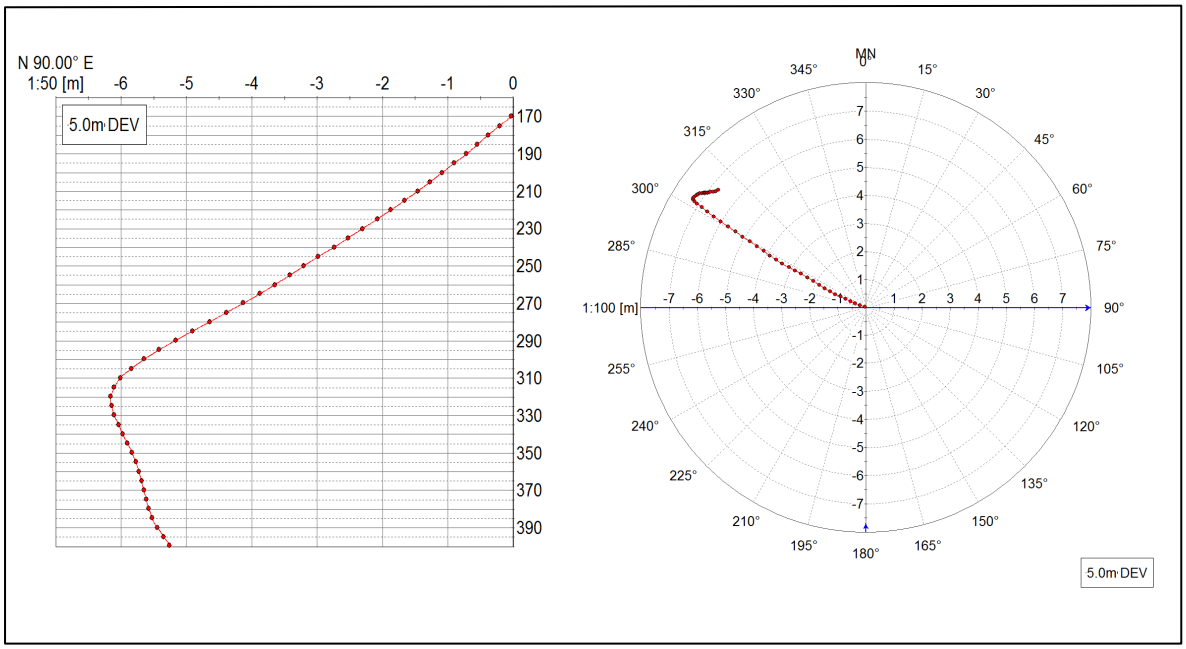
Records

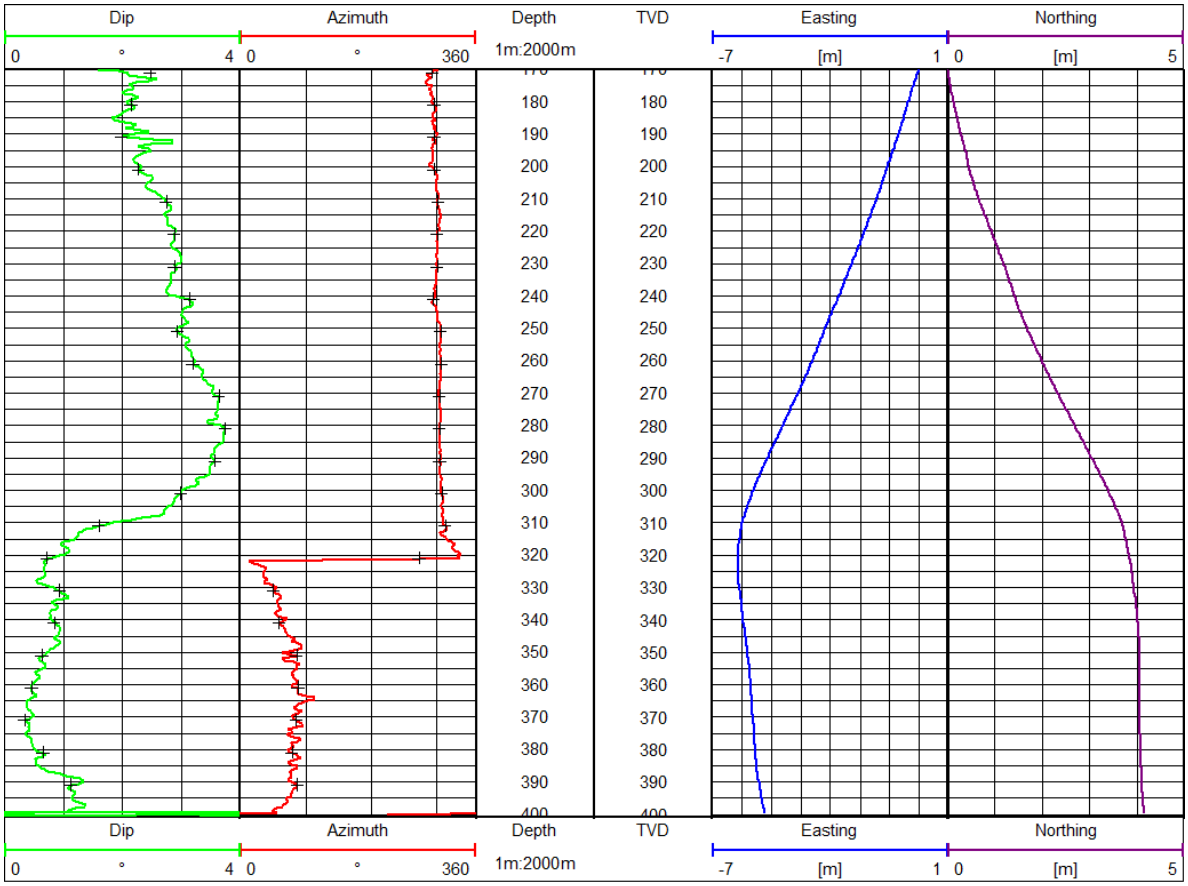
• Tool	:	☒ centered	☐ off-centered
• Measure	:	☒ down	☒ up
• Rec. speed	:	5 m/min	

Measures

• Azimuth accuracy	:	± 1.0°
• Dip accuracy	:	± 0.5°

Example


N 90.00° E
1:50 [m]
5.0m·DEV
MN
1:100 [m]
5.0m·DEV


Dip
Azimuth
Depth
TVD
Easting
Northing
1m:2000m
[m]