

Micro-Resistivity Imager (GMI)



3.36m
(132")

Imaging
Pads

Micro-Resistivity Imager Module

The Micro-Resistivity Imager module provides a high-resolution spatially oriented image of features on the borehole walls.

The tool includes 4 pads each containing twelve button electrodes mounted on 2 pairs of powered arms. The current emitted by each electrode is focused into a narrow beam and returns to a remote part of the tool body. The current from each electrode is measured and digitised in each pad and transmitted to the surface by a separate telemetry module using a proprietary high-speed communications system. The tool may be run on 7-core cables and is compatible with the standard Robertson Geo oilfield surface system running Warrior™ software.

SPECIFICATION:

Features

- 48 button electrodes (12 on each pad)
- Data sampling interval 60ms with real-time transmission of all data
- Exchangeable pads for hole sizes between 110mm and 220mm
- 40% wall coverage in 146mm borehole

Measurements

- Micro-resistivity
- Borehole diameter (XY caliper)

Applications

- Identification of faults and folding
- Location/characterisation of fractures
- Determination of structural dips
- Analysis of sedimentary structures and cross-bedding
- Core orientation

Operating Conditions

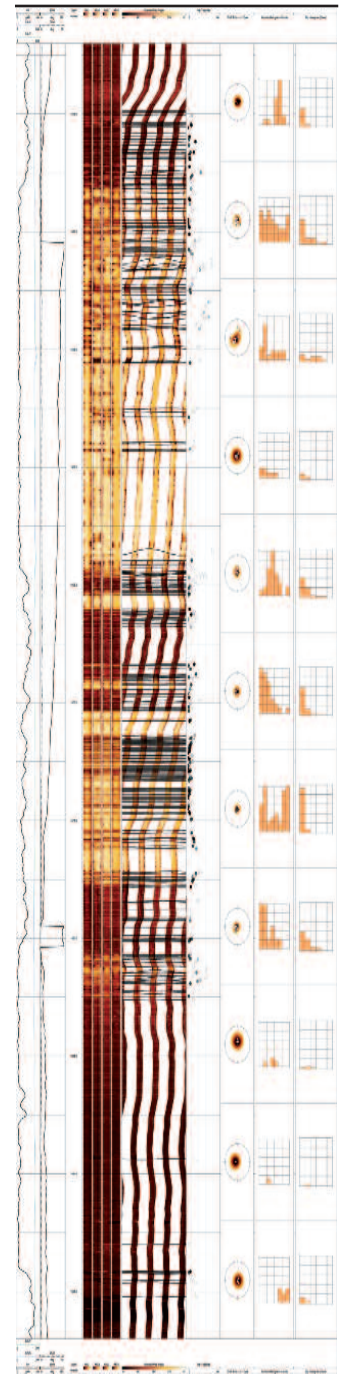
- Borehole type: open-hole, mud/water filled
Ø:102mm (4") to 257mm (10.1")
- Centralisation required

Specifications

- Diameter: 94mm (3.7") (with 8.5" pad)
- Length: 3.36m (132")
- Weight: 47kg (103.5lb)
- Max. temperature: 125°C
- Max. pressure: 86MPa (12,500psi)
- Caliper accuracy: +/- 5mm
- Inclination accuracy: +/- 0,1 deg
- Azimuth accuracy: +/- 5 deg
- Button current precision: 16-bit (48 button electrodes - 12 on each pad)
- Resolution (radial & vertical): 7mm (46% wall coverage in 146mm borehole)
- Logging speed: 300m/hr
- Borehole range: 114mm (4.5") to 250mm (10")

Part Numbers

- 1015579 Micro-Resistivity Imager module



Example of logging data

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