



4-Arm Dipmeter Probe

The 4-Arm Dipmeter measures microresistivity and tool orientation data.

These can be processed to determine formation dips.

Principle of Measurement:

The probe consists of a microresistivity section and a detachable verticality module. Microresistivity data is acquired by four high-resolution, button electrodes mounted on motorised XY caliper arms and maintained in contact with the borehole walls. A planar formation feature that does not lie perpendicular to the borehole axis is detected by each electrode at a different apparent depth. The four microresistivity measurements are correlated and combined with the verticality data to calculate the dip and dip direction.

SPECIFICATION:

Features

- Small diameter for slim-hole operations
- Operates in all orientations

Measurements

- Formation dip and azimuth
- Microresistivity
- Borehole verticality and drift
- True vertical depth
- Borehole volume
- Natural Gamma

Applications

- Engineering/minerals
- Stratigraphy
- Sedimentology
- Identification of faults and folding
- Fracture identification
- Correlation between wells

Operating Conditions

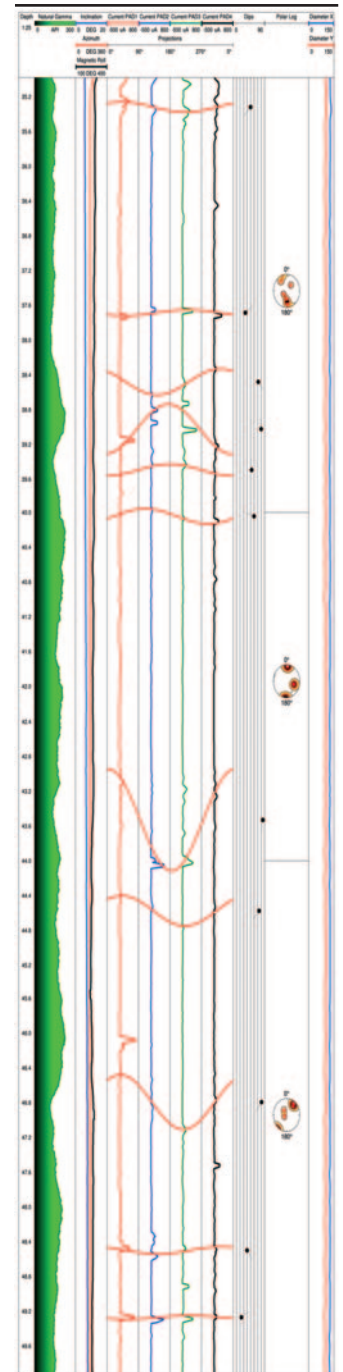
- Borehole type: open, water-filled
- Centralisation: non-magnetic centralisers required for inclined boreholes and/or diameters above 150mm
- Recommended Logging Speed: 3m/min

Specifications

- Diameter: 61mm (when closed 66mm)
- Length: 5.17m
- Weight: 52kg (combined)
- Temperature: 125°C
- Max. pressure: 20MPa
- Resistivity range: 1 to 10,000 ohm-m
- Borehole inclination: any
- Caliper range: 62-380mm

Part Numbers

- I015623 4-Arm Dipmeter probe with natural gamma



Example of logging data

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