

Title (en)
METHOD OF DETERMINING AZIMUTH OF A BOREHOLE

Title (de)
VERFAHREN ZUR BOHRLOCHAZIMUTBESTIMMUNG

Title (fr)
PROCEDE DE DETERMINATION DE L'AZIMUT D'UN TROU DE FORAGE

Publication
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Application
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Abstract (en)
[origin: WO9966173A1] A method is provided of determining an azimuth angle of a borehole formed in an earth formation using a magnetometer tool arranged in a drill string extending in the borehole, the magnetometer tool having a selected orientation relative to the drill string. The method comprises a) selecting at least two locations along the borehole at which the borehole has selected different borehole inclinations, b) for each selected location, arranging the drill string in the borehole such that the magnetometer tool is positioned at the selected location and operating the magnetometer tool so as to measure a local magnetic field including the earth magnetic field and a drill string magnetisation field having a component in a substantially vertical plane through the longitudinal axis of the drill string at the selected location, c) determining from the measured magnetic field and from the selected borehole inclinations, said component of the drill string magnetisation field, d) correcting the measured magnetic field for said component of the drill string magnetisation field, and e) determining from the corrected magnetic field, the borehole azimuth.

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