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REAL TIME STRUCTURAL INTERPRETATION OF LOGGING WHILE DRILLING IMAGES IN HORIZONTAL WELLS

Fullbore imaging is now available from LWD density and resistivity tools. The Vision Density Neutron is device that acquires Density borehole images while drilling in non-conductive mud while the Geovision tool provides quantitative azimuthal images in conductive drilling fluids.

A unique feature of both this devices is the possibility to transmit images from down hole to surface in Real time. Geological interpretation of real time images has been used to successfully geosteer several horizontal well offshore Norway. Structural beddings could be recognized, and hand picked dips allowed to monitor and adjust the position of the well path within the optimal reservoir section.

In this paper, we present three examples of horizontal wells where this technology allowed precise placement of borehole relative to the geology.