High-Resolution Ultrasonic Imaging Service Identifies Fractures, Improves Wellbore Stability and Helps to Optimize Completions in Oil-Based Mud Applications

Speaker: Justin Gouveia | Halliburton Sperry Drilling

September 23, 2020 | 12:00 pm-1:00 pm MDT

1 CPD (Continuing Professional Development) credit will be awarded for this event

ABSTRACT
High-resolution ultrasonic images from logging-while-drilling (LWD) technologies enable the identification and evaluation of fractures in oil-based mud (OBM) applications. Real-time assessment of borehole shape and size provides valuable insight into borehole conditions, aiding wellbore stability by enabling adjustment of drilling parameters through visualization of borehole breakout and enlargements. Identification of borehole enlargement, when combined with identification of fractures clusters, allows operators to optimize their completion program by aiding selection of zones of interest, and identifying the best placement of completion equipment such as packers.

This talk will discuss examples of high-resolution images from a 4¾-in. ultrasonic imaging LWD service in OBM where the identification of fractures, bedding features and borehole breakout enhanced reservoir understanding and provided an improved understanding of borehole conditions. The high-resolution images demonstrate the potential for the LWD service to be the primary imaging solution in applications where the deployment of comparable wireline technologies is deemed too costly or risky.

BIOGRAPHY
Justin Gouveia has 9 years of oil and gas experience working for Halliburton. A graduate of the University of Calgary’s Oil & Gas Engineering degree back in 2011, Justin’s experience ranges from M/LWD Field Engineer to Technical Sales Advisor with Sperry Drilling in Western Canada. He is mainly focused on supporting Sperry’s unconventional clients where new technologies have been trialed and implemented for long term sustainability.