

Remote Geosteering – Applications in Conventional and Unconventional Plays in Canada

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Summary

A successful horizontal wells placement has been always a challenge for the Oil & Gas Operators around the world and it becomes very critical when structural / geological complexities are coupled with lateral heterogeneity and reservoir fluid variations.

The recent technological advancements in MWD/LWD tools have substantially eliminated these issues and we can now place the horizontal wells in the target zones with a much greater level of confidence. As a result, the innovation of the bed boundary mappers tools have increased the depth of investigation to +30metres all around the well bore facilitating excellent visualization across multiple layers.

Consequently, various geosteering applications for conventional and unconventional resource plays have been and are very effectively used around the world. Although during the last few years, remote geosteering gained some momentum in Canada as well, but the cost of the tools coupled with issue regarding selection of right tools used for each specific reservoir is a question mark. These are the reason for very limited usage of geosteering applications in the WCSB.

The key, in Remote Geosteering, is to utilize the best suitable methodology as required by every specific reservoir and as our goal to minimize drilling costs and payout time while maximizing reservoir contact and production returns. In this presentation, we would like to discuss when, why and how Remote Geosteering can be an instrumental and effective tool to Oil & Gas Operators drilling present and future formations of interest in Canada.