

Applications of Portable XRF for Chemical Stratigraphy: Horn River Basin

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Abstract

The shale units of the Horn River Basin represent a potential world class hydrocarbon play juxtaposed alongside several challenges faced by producers. Identification of lithofacies and compositional changes by binocular microscope and natural gamma measurements tends to be difficult due to the homogenous appearance of the shale. As producers continue to face depressed gas prices for the foreseeable future it is imperative that methods be examined to increase the efficiency of the drilling process. The portable X-Ray Fluorescence (XRF) tool has the potential to determine target zones and steer the drilling of wells in real time.