



“Stretching from Land to Sea”

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Palynological Study of Horton Group in the Windsor and Shubenacadie Basins

Onshore Nova Scotia has a long drilling history dating back to 1869, but no commercial production has been established. The Department of Energy has determined that one of the barriers to successful exploration in the province is a lack of comprehensive knowledge of the sedimentary basins identified in the “Onshore Petroleum Atlas Project”. The objective of the Atlas project is to highlight petroleum geoscience gaps and identify a way to address them in the resource assessment. As a part of this ongoing Atlas project, the palynology study focused on the Horton Group of the Windsor and Shubenacadie basins. The goal of this project is to use fossil occurrences within the rock record to establish correlations between time equivalent rock strata in the Horton Group, and provide support on the further sequence stratigraphic interpretation and seismic correlations. 101 samples of seven petroleum wells have been collected and analyzed in this study. Palynology study plays an important role in better understanding the basin history as it can provide the timeframe and stratigraphic age references for the further study.