

Western Canada Resource Plays: A Geoscientific and Well Completions Overview of Recent Activity, Results and Trends

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Summary

Over the past decade, the WCSB has steadily transitioned away from exploration and towards resource play development. Back in 2004, over 90% of wells drilled were vertical, with approximately one-quarter licensed as exploration. Fast forward to 2014 and over 60% of the wells are horizontal with fewer than 10% being exploratory. Two-thirds of today's horizontals target the tight oil and gas reservoirs of once-conventional plays. Driving this change is the widespread adoption of horizontal multi-stage fracturing, multi-well pads and other technological advancements. In 2014, operators collectively spent close to \$20B drilling and completing resource play wells in Western Canada.

Canadian Discovery currently monitors over 50 active resource plays, spanning Cretaceous to Devonian reservoirs and extending across BC, Alberta, Saskatchewan and Manitoba. This presentation provides a geoscientific and well completions overview of recent activity, results and trends, with a view to highlighting key successes and identifying remaining opportunities. Hot plays, such as the Montney, as well as new entrants, such as the Midale, will be ranked and discussed.