



GUSSOW 2026

CRACKING THE CRETACEOUS CODE

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Clearwater – Zeroing in on a Unique, Scalable Asset.

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ABSTRACT

Tamarack Valley Energy's Clearwater asset represents a uniquely large, scalable, and long-life heavy oil development, underpinned by an estimated >11 billion barrels of original oil in place (OOIP)* across a broad, multi-pool fairway. The Clearwater Formation provides stacked pay potential across multiple areas—including Nipisi, West Marten, and Marten Hills—where OOIP varies from 5 to >60 MMbbls per section* depending on pool and stratigraphic interval.

Clearwater reservoirs are a series of Lower Cretaceous shoreface and deltaic sands that prograded into the Western Canadian foreland basin. Horizontal drilling success in the Clearwater is due to favorable relationships between oil viscosity and rock permeabilities. Case studies of the Clearwater C sand at Marten Hills and the Clearwater B sand at Nipisi illustrate the variability in oil and reservoir quality across the fairway.

Waterflood pattern designs—tailored to reservoir geometry and vertical heterogeneity—have demonstrated incremental recovery, stable oil production with minimal decline, and long-term upside through continued flood expansion.

*Based on internal estimates.

