

## **Sedimentological Criteria for Distinguishing Stacked Dune-trough Muds from Muds in Inclined Heterolithic Strata in the Subsurface – Insights from McMurray Formation Outcrops and Modern Analogues**

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### **Abstract**

Both dune-trough (also known as dune-bottomset) mud deposits and muds in inclined heterolithic stratification (IHS; Thomas et al., 1987) are deposited in the same depositional systems including fluvial, tidal and tidally influenced fluvial systems. Although their geometries and structures are fundamentally different, these two deposits are hard to distinguish in core.