

Biogenic Gas Accumulation in the Upper Cretaceous Belle Fourche and Second White Speckled Shale Formation in the Tangleflags Area, North Central Saskatchewan – Preliminary Investigations

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The first gas production from wells completed in the Second White Specks in the Tangleflags and Peck Lake areas (Township 51-60, Ranges 23-28W3M) of North Central Saskatchewan was reported in 1985. An upswing in the number of wells in production commenced in 2000, with now over 80 wells that have produced or are producing from the Second White Speckled shale sandstone (Belle Fourche). Over 27 Bcf has been produced to date from the thin (< 5 meters) fine grained glauconitic sandstone lying within the Lower Belle Fourche (also known as the Second White Speckled sandstone). The Lower Belle Fourche consists of medium grey, noncalcareous shales and calcareous shales and mudstones interbedded with very fine- to fine-grained finely laminated glauconitic sandstone.

Detailed mapping of cored intervals and the correlation of geophysical well logs to produce a stratigraphic framework for the area is currently underway. This work will eventually be correlated with the previous work in southern gas pools of southwestern Saskatchewan in an attempt to delineate further areas of gas exploration.