



Open File 2014-1, Map 102 of 156 (Saskatchewan Ministry of the Economy, Saskatchewan Geological Survey)

## SASKATCHEWAN PHANEROZOIC FLUIDS AND PETROLEUM SYSTEMS PROJECT

### Upper Devonian-Lower Mississippian Middle Bakken Member: Structure Map

A. Marsh and M. Love

The series of stratigraphic framework maps for the Saskatchewan Phanerozoic Fluids and Petroleum Systems (SPFPS) project have been produced using 2 km equi-spaced modified grids generated from Golden Software's Surfer 9 kriging algorithm. The dataset used to produce each of the maps in this series was created using data from several projects completed by the Ministry (Christopher, 2003; Saskatchewan Industry and Resources *et al.*, 2004; Kreis *et al.*, 2004; Marsh and Heinemann, 2006; Saskatchewan Ministry of Energy and Resources *et al.*, 2007; Heinemann and Marsh, 2009); these data were validated and edited as required to facilitate correlations between the various regional projects. In addition, to minimize edge effects during contouring, the senior author also generated stratigraphic data from wells in adjacent jurisdictions.

#### References

Christopher, J.E. (2003): Jura-Cretaceous Success Formation and Lower Cretaceous Mannville Group of Saskatchewan; Sask. Industry and Resources, Misc. Rep. 223, CD-ROM.

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Kreis, L.K., Haidl, F.M., Nimegeers, A.R., Ashton, K.E., Maxeiner, R.O., and Coolican, J. (2004): Lower Paleozoic Map Series, Saskatchewan; Sask. Industry and Resources, Misc. Rep. 2004-8, CD-ROM, URL <<http://economy.gov.sk.ca/MiscRep2004-8>>.

Marsh, A. and Heinemann, K. (2006): Regional Stratigraphic Framework of Western Saskatchewan – Phase 1; Petroleum Technology Research Centre, URL <<http://ptrc.ca/+pub/document/WSP%20Final%20Report.pdf>>.

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#### This map may be referenced as:

Marsh, A. and Love, M. (2014): Upper Devonian-Lower Mississippian Middle Bakken Member: structure map; Saskatchewan Phanerozoic Fluids and Petroleum Systems Project; Sask. Ministry of the Economy, Saskatchewan Geological Survey, Open File 2014-1, map 102 of 156.

#### This entire series may be referenced as:

Marsh, A. and Love, M. (2014): Regional Stratigraphic Framework of the Phanerozoic in Saskatchewan; Saskatchewan Phanerozoic Fluids and Petroleum Systems Project; Sask. Ministry of the Economy, Saskatchewan Geological Survey, Open File 2014-1, set of 156 maps.

#### LOCATION MAP

