

Interactive  
Comment

***Interactive comment on***  
**“3-D-geomechanical-numerical model of the  
contemporary crustal stress state in the Alberta  
Basin” by K. Reiter and O. Heidbach**

**Anonymous Referee #1**

Received and published: 17 September 2014

This MS provides a useful review of the stress state in the Alberta Basin and develops a 3-D model to estimate the stress state in the crust. Results show a reasonable fit with existing data and provide then a good first attempt to have a predictive system for stress state. How well this may work for local specific conditions will remain to be seen given numerous potential small scale deviations of stress orientation. However it will provide a good first order estimation that would be useful for either geothermal develop as per the stated goal, or as well petroleum development.

In general the MS is well written and well prepared. There are some minor issues with grammar that can be easily fixed with careful editing.

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Interactive Discussion

Discussion Paper



Interactive comment on Solid Earth Discuss., 6, 2423, 2014.

**SED**

6, C962–C963, 2014

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