

## **Preliminary Structure Maps and Cross Sections of North and Middle Park, Colorado**

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This study is part of the North Park-Medicine Bow Mountains Project, a multidisciplinary study to understand the timing of Laramide uplift, style and deformation in the North and Middle Park areas of Colorado. To enhance our understanding of the subsurface, a database consisting of over 400 well logs was constructed mainly from Colorado Oil and Gas Conservation Commission and USGS Coal study data. These subsurface geophysical logs are integrated together with field observations of this project and formerly published geologic maps. Initial focus of this part of the project is to understand the underlying basin geometry and structural complexity of the pre-Cenozoic strata after which more detailed work will be performed on the Paleocene through Eocene, largely coeval Middle Park and Coalmont Formations. Correlations across the compressional and contractional features within the basin, like Delaney Buttes, Sheep Mountain, and the McCallum anticline will be presented with cross sections and structure maps of the main stratigraphic horizons including the top of the Precambrian, Dakota, Niobrara, Hygiene and the base of the Coalmont Formation.