

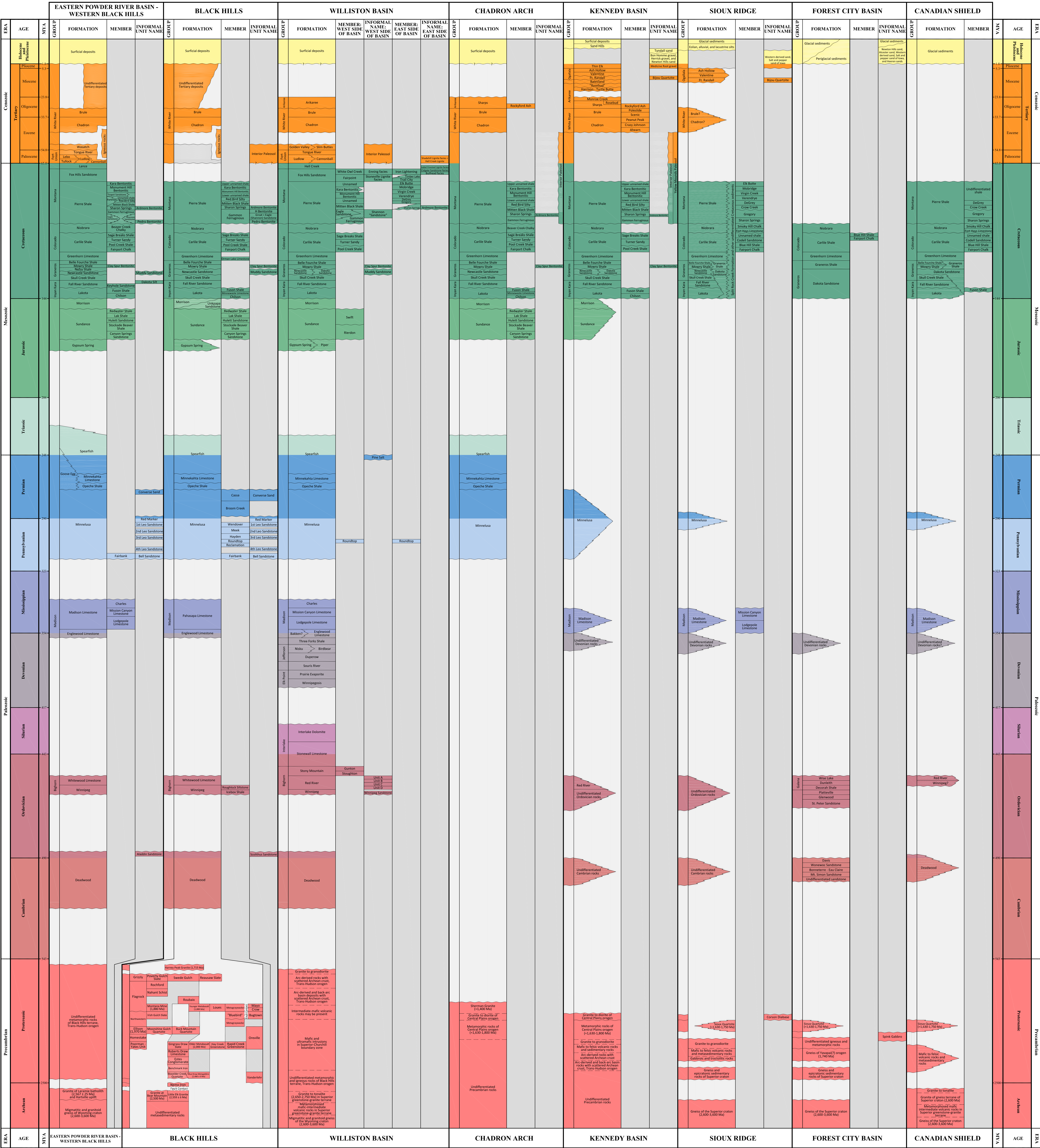
South Dakota Stratigraphic Correlation Chart

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Oil and Gas Investigation 1



EXPLANATION

- Unconformable contact
- Conformable contact
- Area of intertonguing or pinch out
- Fault contact
- Uncertain stratigraphic relationship
- Interval where rock units of a particular age are absent
- Formation, member, or informal name not designated

DISCUSSION

The South Dakota Stratigraphic Correlation Chart depicts a chronostratigraphic classification for the geologic strata within the various geologic areas shown on the index map. The chronostratigraphic scale is not linear and is expanded or compressed depending on the number of rock units that are shown within each time interval. Minor informal stratigraphic units are not shown. In the Williston Basin, members and informal names are shown for the eastern and western portions of the basin because of its stratigraphic complexity and the large size of the basin. The Eastern Powder River Basin - Western Black Hills column reflects units that extend into Wyoming to illustrate the nomenclatural relationships between these two regions. The Precambrian rocks in the Black Hills are generally arranged with the stratigraphy of the northern Black Hills on the left side of the column, central Black Hills at the center, and southern Black Hills on the right. This correlation chart was compiled from the references listed and from well logs and other information from the Minerals and Mining Program and the Geological Survey Program, South Dakota Department of Environment and Natural Resources. J.E. Fox is acknowledged for his contribution to this publication.

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