LOCATION OF THE POWDER RIVER BASIN

EXPLANATION

100

Duration: Number is elevation in feet.

Elevation of mapped interval in feet. Structure values were not corrected for tilting or deformation of rock layers. Such conditions are more likely to occur on the southern side of the map and along deformed margins of the basin.

Organic shows of the Upper Cretaceous Lance Formation and Fox Hills Sandstone, undistinguished.

Organic shows of the Upper Cretaceous Fox Hills Sandstone.

Data from which this map was constructed are stored in a database of formation tops and bases determined from electric logs of 185 wells penetrating Upper Cretaceous and older rocks. These logs are shown in 22 cross sections of the Powder River basin by James E. Fox, 1986 (U.S. Geological Survey Open-File Report 86–440A through 86–440B). The map was produced by using the Interactive Surface Modeling (ISM) program of Dynitec Graphics, Inc. Values at some of the data locations may not be as closely honored on a hand-drawn map because of the mathematical constraints of the mapping program.

This map is prepared in part for the Evolution of Sedimentary Basins program.

1 Any use of trade names is for descriptive purposes and does not imply endorsement by the U.S. Geological Survey.

This map is preliminary and has not been edited or reviewed for conformity with Geological Survey standards.