THICKNESS OF PARKMAN SANDSTONE MEMBER OF THE UPPER CRETACEOUS MESAVEDE FORMATION AND THE REDBIRD SLITTY MEMBER OF THE UPPER CRETACEOUS PIERRE SHALE, POWDER RIVER BASIN, WYOMING AND MONTANA

By James E. Fox and Debra K. Higley

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Scale 1:500,000

Contour interval 30 feet

EXPLANATION

Bonanza. Number is thickness in feet.

Isopach of mapped interval in feet. Thickness values were not corrected for the thickness non-labeled as anomalous in wells with inclination of bores, faulting, or problems of hole deviation. Such occasional conditions are more likely to occur in the southeast portion of the map and along deformed margins of the basin.

Generalized outcrop of the Upper Cretaceous Lance Formation and Fox Hills Sandstone, unlined.

Generalized outcrop of the Upper Cretaceous Fox Hills Sandstone.

Data from which this map was constructed are stored in a database of formation logs and bases determined from electric logs of 186 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 Reports OF-86-445A through OF-86-460A). The map was produced by using the Interactive Surface Mapping Tool (ISM) program of Dynamic Graphics, Inc. Values at some of the data locations may not be as closely honored as on a hand-contoured 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 Geologic Survey standards.