STRUCTURE AT THE UPPER CRETACEOUS CLAY SPUR BENTONITE BED, POWDER RIVER BASIN, WYOMING AND MONTANA

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Scale 1:500,000

Location of the Powder River basin

EXPLANATION

- Strata represented as structural markers.
- Elevation of mapped interval in feet.
- Structure values were not corrected nor
  interpolated as anomalies in wells with
  indication of bed, 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, undivided.
- Generalized outcrop 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 184 wells permitting Upper Cretaceous
and older rocks. These logs are shown in 32 cross
sections of the Powder River basin by James E. Fox,
4095 through 85–4095X). The map was produced by
using the Interactive Surface Modelling (ISM) program
of Dynamic Graphics, Inc. Values at some of the
data locations may not be as closely honored as on a
hard-encoded map because of the mathematical
constraints of the mapping program.

This map is prepared in part for the Evolution of
Basin Analysis program.

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.