

U.S. GEOLOGICAL SURVEY
DEVELOPER
AUG 17 1963
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EXPLANATION

Qal Alluvium

Qw Wind-blown sand, possibly of alluvial origin

Qtg Terrace gravel

Kc Coriile shale

Kg Dark-gray marine shale, in part calcareous. Limestone concretions abundant in upper 40 feet, fossiliferous silty concretions in middle.

Kbf Greenhorn limestone

Km 15 to 30 feet of stabby grayish-yellow limestone containing abundant *Inoceramus labialis*. Calcareous shales above and below mapped with Coriile and Belle Fourche shales.

Km s Belle Fourche shale

Km s s Dark-gray marine shale. Includes zone 70 feet thick of large manganese concretions at base.

Ksc Mowry shale

Kfr Skull Creek shale

Kfr s Medium-gray marine shale. Sandstone dikes and masses indicated by crenulated line and s.

Kfr s s s Fall River formation

s sandstone; st siltstone; sst sandstone and siltstone interbedded; s₆ is a fine-grained grayish-orange crossbedded cliff-forming sandstone previously designated s₆ on maps of adjacent areas. Basal sst contains uranium in adjacent areas.

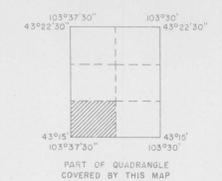
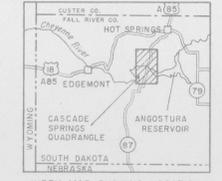
--- Contact
- - - Dashed where approximately located.

- - - Indefinite or inferred contact

- - - Top of Fall River formation

"b" Limit of exposure
"b" indicates exposure. Exposures mapped only in Fall River formation.

--- Structure contour
Drawn at top of Unnamed lower unit of Lakota formation, interval 50 feet; datum is mean sea level. Dashed where Unnamed lower unit of Lakota formation is buried.

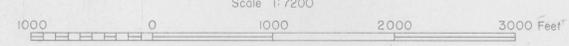


Topography by U. S. Geological Survey by
multiplex methods from aerial photographs

Geology by E. V. Post, 1955 and 1956,
assisted by W. B. Bryan and D. W.
Lane

PRELIMINARY GEOLOGIC AND STRUCTURE MAP OF THE SOUTHWEST PART OF THE CASCADE SPRINGS QUADRANGLE, FALL RIVER COUNTY, SOUTH DAKOTA

By
Edwin V. Post
Scale 1:7200



Contour interval 10 feet
Datum is mean sea level