UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BULLETIN 1063
PLATE 17

EXPLANATION

QUATERNARY

- Qal — Alluvium
- Qw — Alluvium *Surficially modified by wind*
- Qtg — Terrace gravel

CRETACEOUS

Upper Cretaceous

- Kbf — Belle Fourche shale
- Kmo — Mowry shale
- Ksc — Skull Creek shale

Lower Cretaceous — Inyan Kara group

- Kfusm, Kfum, Kfmsm, $KfmS_5$, Kflss, Kfls — Fall River formation
  - *Upper unit:*
    - Kfusm, *interbedded sandstone and mudstone.*
    - Kfum, *mudstone.*
  - *Middle unit:*
    - Kfmsm, *interbedded sandstone and mudstone.*
    - $KfmS_5$, *prominent channel sandstones.*
  - *Lower unit:*
    - Kflss, *interbedded sandstone and siltstone.*
    - Kfls, *channel sandstone*
- $Klfm_4$, $KlfS_4$, Klfm, Klfs, $KlfS_3$, Klm, $KlcS_1$, $Klcsm_1$ — Lakota formation
  - *Fuson member:*
    - $Klfm_4$, *mudstone part of channel fill.*
    - $KlfS_4$, *a prominent channel sandstone.*
    - Klfm, *mudstone.*
    - Klfs, *sandstone.*
    - $KlfS_3$, *edge of a channel sandstone prominent elsewhere in the southern Black Hills.*
  - *Minnewaste limestone member,* Klm.
  - *Chilson member* (Klc, *on sections only*):
    - $KlcS_1$, *prominent fluvial sandstones.*
    - $Klcsm_1$, *interbedded sandstone and mudstone associated with* $KlcS_1$

JURASSIC

Upper Jurassic

- Jm — Morrison formation
- Jsr, Jsl, Jsh, Jssb — Sundance formation
  - Jsr, *Redwater shale member.*
  - Jsl, *Lak member.*
  - Jsh, *Hulett sandstone member.*
  - Jssb, *Stockade Beaver shale member*

- Contact — *Dashed where approximately located*
- Indefinite or inferred contact
- Fault — U, *upthrown side;* D, *downthrown side*
- Area of silica cement
- Sandstone dikes
- Uranium mine
- Uranium prospect
- Structure contour — *Drawn on base of Fall River formation. Dashed where approximately located, short dashed where projected above the surface. Contour interval is 50 feet*

Base map by Topographic Division
U. S. Geological Survey, 1950

Geology by R. W. Schnabel and
L. J. Charlesworth, Jr., 1955–56

APPROXIMATE MEAN DECLINATION, 1962

SECTION B–B′

SECTION A–A′

GEOLOGIC MAP AND SECTIONS, BURDOCK QUADRANGLE, FALL RIVER AND CUSTER COUNTIES, SOUTH DAKOTA

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—61294