



EXPLANATION

<p>Miocene</p> <p>White River Group</p> <p>Oligocene</p> <p>Upper Cretaceous</p>	<p>TERTIARY</p> <p>CRETACEOUS</p>
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- Ta**
Arikaree Formation
Tuffaceous sandstone and volcanic ash
- Tls**
Pre-Arikaree landslides
Landslide blocks contain rocks of Hell Creek, Chadron, and Brule Formations
- Tbr**
Brule Formation
Tuffaceous claystone, siltstone, and sandstone
- Tc**
Chadron Formation
Bentonitic claystone, siltstone, sandstone, and conglomerate
- Khc**
Hell Creek Formation
Claystone, shale, impure lignite, and lenticular sandstone
- Kfh**
Fox Hills Sandstone
Marine sandstone and sandy shale
- Kp**
Pierre Shale
Marine shale and claystone

- Contact**
Dashed where approximately located
- Boundary of landslide**
Dashed where approximately located; dotted where concealed
- Strike and dip of beds in landslide blocks**
37°
- Contour**
3700
Showing altitude of base of Arikaree Formation. Dashed where restored. Interval 50 feet. Datum is mean sea level. Vertical control by single base altimetry
- Anticline**
Showing axis and direction of plunge
- Syncline**
Showing axis and direction of plunge
- Harding 4019**
U.S. Coast and Geodetic Survey triangulation station, elevation in feet
- AMS 3340**
Army Map Service elevation, in feet
- Altitude control point**
- Dry hole**
- Custer National Forest Boundary**
- 24B Spring** **20BW Water well**
- Number is uranium content, in parts per billion. Letter B indicates water sample analyzed for selected trace elements.*
- X**
Uranium occurrence

Harding County
SOUTH DAKOTA

MAPPED AREA

Base from Bureau of Land Management plats

Geology mapped in 1955. Contact of Fox Hills Sandstone and Pierre Shale modified after Curtis (1956) and Schulte (1956)

GEOLOGIC MAP OF SHORT PINE HILLS, HARDING COUNTY, SOUTH DAKOTA

SCALE 1:63 360



DATUM IS MEAN SEA LEVEL