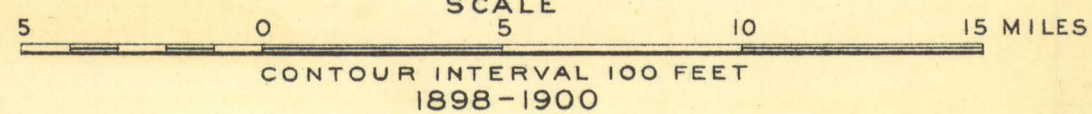


EXPLANATION

- TERTIARY**
 - White River group (Chadron and Brule formation)
- CRETACEOUS**
 - Laramie formation
 - Fox Hills formation
 - Pierre shale
 - Niobrara chalk
- BENTON GROUP**
 - Carlile formation
 - Greenhorn limestone
 - Graneros shale
 - Dakota sandstone (and underlying Fuson formation)
 - Lakota Sandstone (and overlying Minnewasta limestone in Hot Springs region)
- JURASSIC**
 - Beulah shale
 - Sundance formation (and overlying Unkapa sandstone to the east and south)
- TRIASSIC**
 - Spearfish formation "Red beds"
- CARBONIFEROUS**
 - Minnekahta limestone (purple limestone) and underlying Opeche formation
 - Minnelusa formation
 - Pahasapa limestone and Englewood limestone
- CAMBRIAN**
 - Deadwood formation
- ALGONKIAN**
 - Crystalline rocks, schists, granite, etc.

GEOLOGIC MAP OF THE SOUTHERN HALF OF THE BLACK HILLS REGION IN SOUTH DAKOTA AND WYOMING

BY N. H. DARTON
SCALE



--- CONTOURS APPROXIMATED FROM BAROMETER READINGS
--- CONTOURS GENERALIZED FROM MAPS OF U.S. GEOLOGICAL SURVEY