

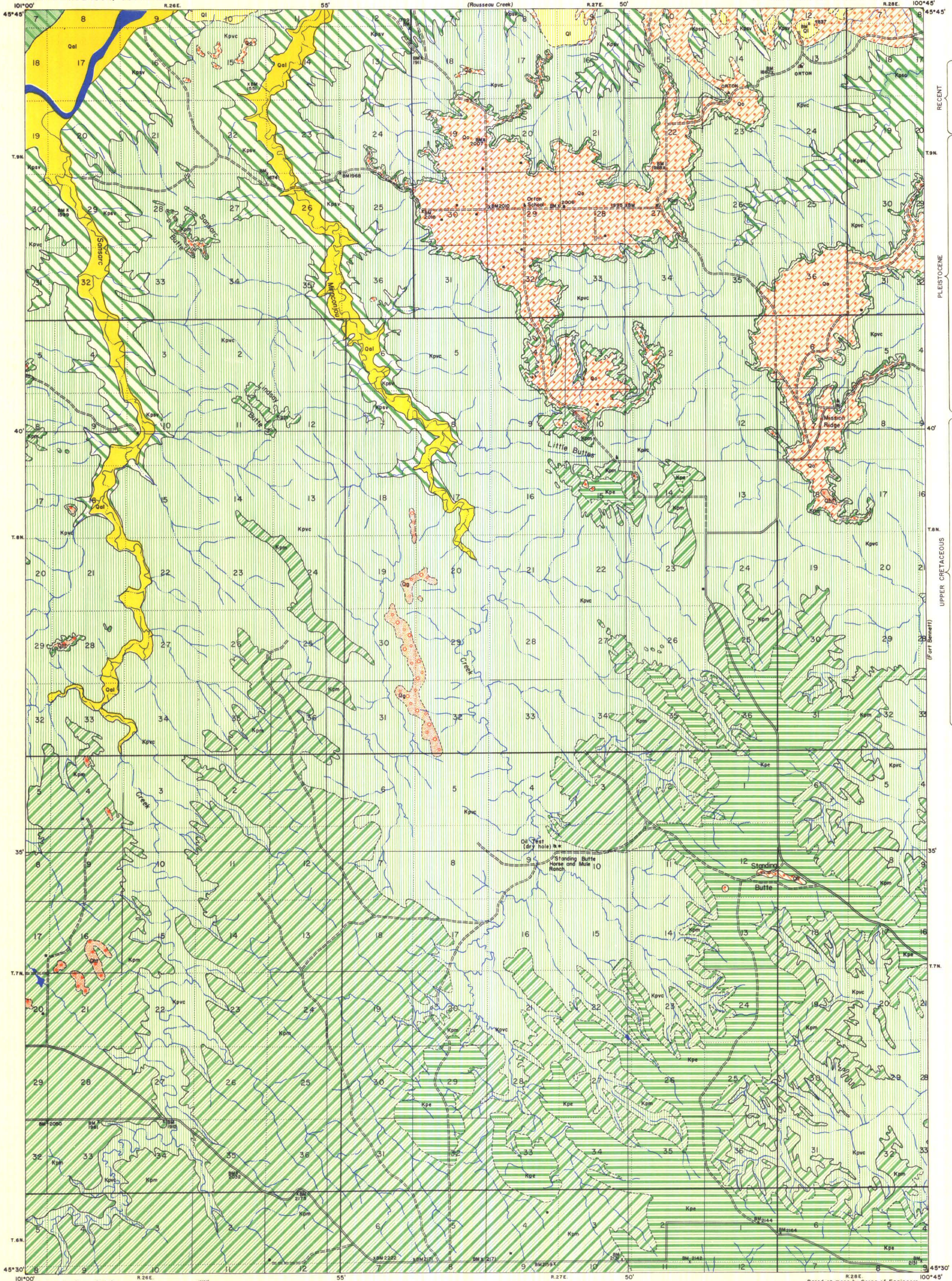
AREAL GEOLOGY

OF THE
STANDING BUTTE QUADRANGLE

STATE OF SOUTH DAKOTA
SIGURD ANDERSON, GOVERNOR

STATE GEOLOGICAL SURVEY
E. P. ROTHROCK, STATE GEOLOGIST

(No. 1087)



EXPLANATION

SEDIMENTARY ROCKS

- | | | |
|---|---|---|
| <p>RECENT</p> <p>PLEISTOCENE</p> <p>UPPER CRETACEOUS</p> <p style="text-align: right;">CRETACEOUS</p> | <p>Qal
Alluvium
(Flood plain deposits of silt, sand and gravel in present stream valleys.)</p> <p>Ql
Loess
(Wind deposited silt.)</p> <p>Og
Gravels
(Terrace deposits of fluvial gravels, broken Fe-Mn concretions, etc. abundant.)</p> <p>Og
Orton Gravels
(Sands and gravels of western origin, containing considerable white chert and broken agate, generally loess covered, on large upland flats at Orton and Mission Ridges.)</p> <p>Qht
High Terrace Gravels
(High terrace deposits of sand and gravel.)</p> <p>Qh
Herrick? Gravels
(Sand and gravel containing considerable bone material, found only on Standing Butte.)</p> <p>Kpe
Eik Butte Member
(Pale gray bentonitic clay containing numerous reddish brown layers and occasional bentonites.)</p> <p>Kpm
Mobridge Member
(Buff and gray slightly calcareous clay in lower part and light buff calcareous clay in upper part, weathers into buff soil, white limestone fossiliferous concretions appear as sections thence westward.)</p> <p>Kpvc
Virgin Creek Member
(Dark gray fissile, siliceous shale with numerous bentonites in lower part and with numerous white limestone concretions in upper part.)</p> <p>Kps
Sully Member
(Upper: Venen? facies Kps brown bentonitic clay with numerous ferruginous concretions. Lower: Agency? facies Kps light gray bentonitic clay with numerous bentonite bands and few Mn-Fe concretions in upper part, light gray siliceous blocky shale in lower part.)</p> | <p>DRAINAGE</p> <p>Intermittent Streams</p> <p>Intermittent Lakes</p> <p>CULTURE</p> <p>Buildings
(House, church and school)</p> <p>Roads and Trails</p> <p>Altitudes
(in feet above sea level)</p> <p>Bench Marks
(Monument marking point of known altitude)</p> <p>Triangulation Stations
(Monument marking point of exact geographic location)</p> <p>Gravel Pits and Quarries</p> |
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Geology by Bruno Petzsch
Assisted by R. C. Barkley
Surveyed in 1950.

Based on maps by Corps of Engineers
U. S. Army, and Geodetic data from U. S.
Coast and Geodetic Survey.

Scale 1/62500



APPROXIMATE MEAN DECLINATION 1947