

AREAL GEOLOGY

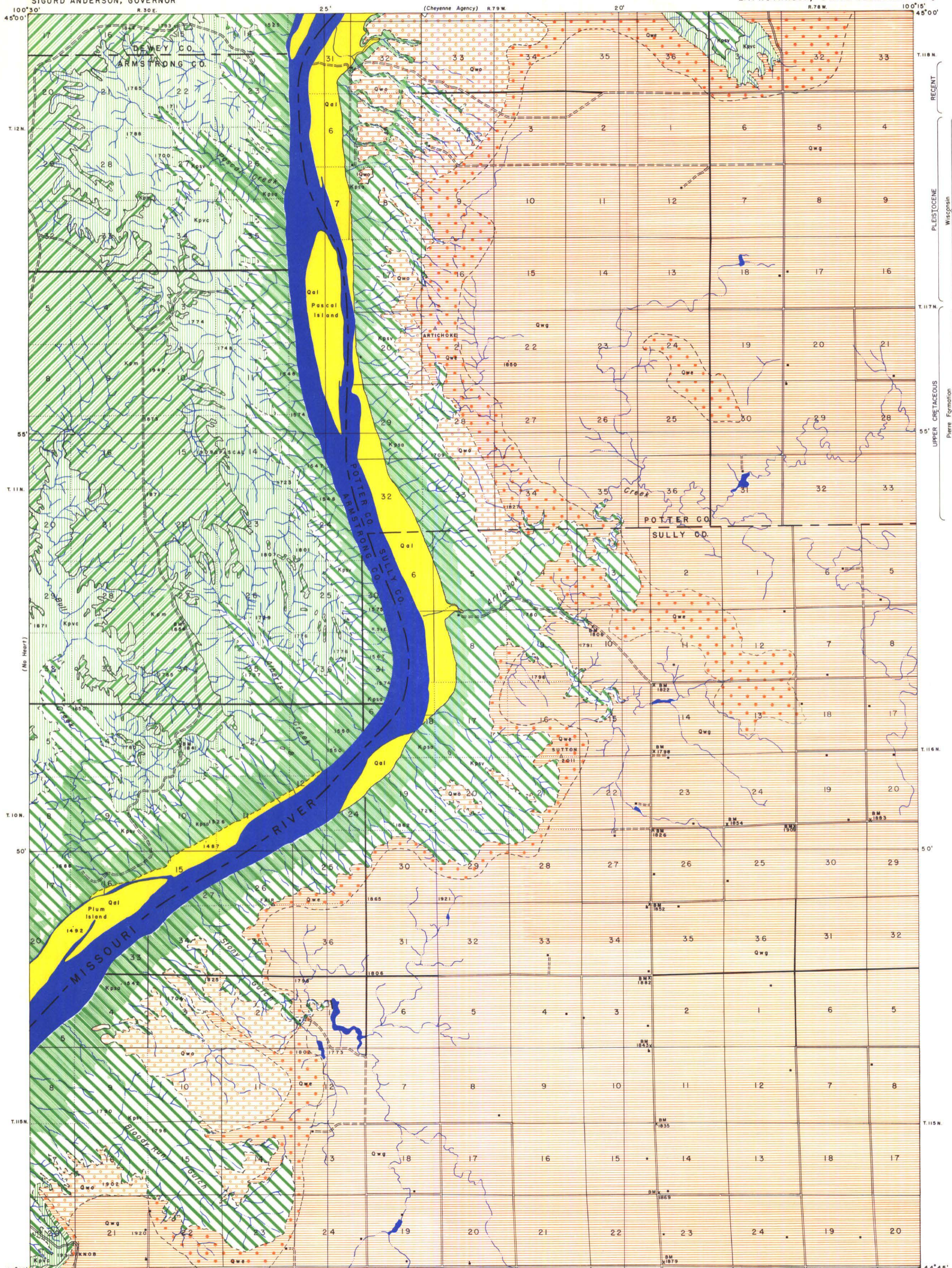
OF THE

ARTICHOKE BUTTE QUADRANGLE

STATE OF SOUTH DAKOTA
SIGURD ANDERSON, GOVERNOR
R. 30 E.

STATE GEOLOGICAL SURVEY
E. P. ROTHROCK, STATE GEOLOGIST
R. 78 W.

(Little
Cheyenne)



EXPLANATION

SEDIMENTARY ROCKS

- RECENT**
 - Qal**
Alluvium
(Floodplain deposits of silt, sand and gravel in present stream valleys.)
- PLEISTOCENE**
 - Qwa**
Glacial Outwash
(Fluvial and glaciofluvial deposits of coarse sand and gravel.)
 - Qwe**
End Moraine
(Undifferentiated fill deposits above general fill plain. Characterized by hummocky topography and concentration of boulders.)
 - Qwg**
Ground Moraine
(Undifferentiated fill deposits characterized by slight relief, predominantly clay boulder clay.)
- UPPER CRETACEOUS**
 - Kpm**
Moberg Member
(Buff and gray slightly calcareous clay.)
 - Kpvc**
Virgin Creek Member
(Dark gray fissile siliceous shale with numerous bentonite layers in lower part and numerous white limestone concretions in upper part.)
 - Kpsv**
Kpsa
Sully Member
(Upper Verendrye facies (Kpsv) brown clay with bentonite layers and numerous ferruginous concretions. Lower Agency facies (Kpsa) gray clay with bentonite layers and few limestone concretions in upper part, light gray siliceous blocky shale in lower part.)

- ##### DRAINAGE
- Intermittent Streams
 - Intermittent Lakes

- ##### CULTURE
- Buildings
(House, church and school)
 - Roads and Trails
 - Altitudes
(In feet above sea level)
 - Bench Marks
(Monument marking point of known altitude)
 - Triangulation Stations
(Monument marking point of exact geographic location)
 - Gravel Pits and Quarries

Geology by E. H. Stevens
Assisted by R. J. Bogan, F. H. Burge
and P. R. Fenske
Surveyed in 1949.

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

Scale: 62500