

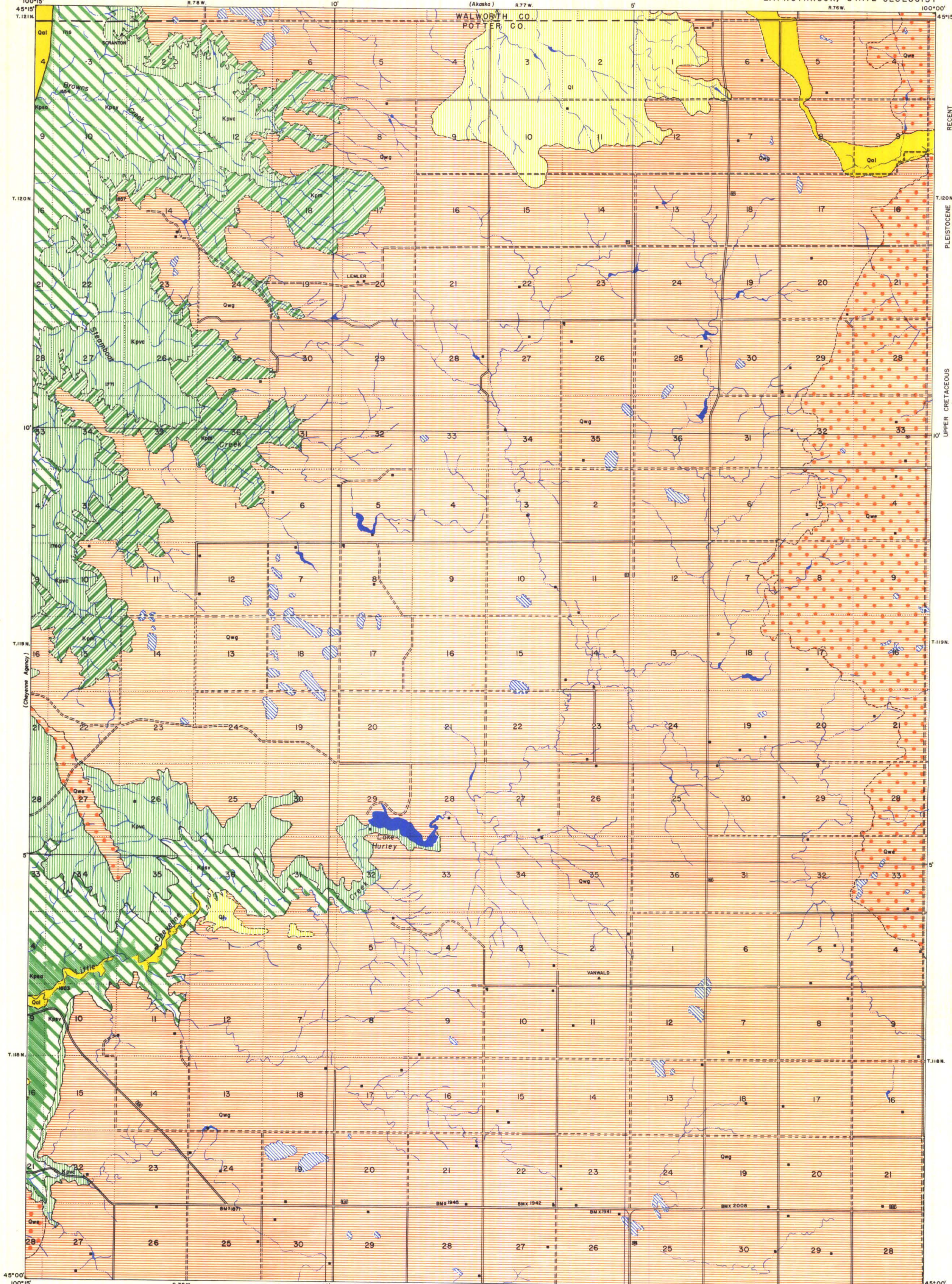
# AREAL GEOLOGY

## OF THE

### LITTLE CHEYENNE QUADRANGLE

STATE OF SOUTH DAKOTA  
SIGURD ANDERSON, GOVERNOR

STATE GEOLOGICAL SURVEY  
E. P. ROTHROCK, STATE GEOLOGIST



#### EXPLANATION

##### SEDIMENTARY ROCKS

- RECENT**
  - QUATERNARY**
  - PLEISTOCENE**
  - UPPER CRETACEOUS**
  - CRETACEOUS**
- Qal**  
Alluvium  
(Floodplain and island deposits of silt, sand and gravel in present stream valley)
  - Ql**  
Loess  
(Wind transported and deposited silt)
  - Qwe**  
End Moraine  
(Unstratified till deposits characterized by hummocky topography)
  - Qwg**  
Ground Moraine  
(Unstratified till deposits characterized by slight relief, predominantly boulder clay)
  - Km**  
Mobridge Member  
(Blue gray calcareous fossiliferous bentonitic clay with some concretions)
  - Kvc**  
Virgin Creek Member  
(Upper facies: Dark gray shale and clay, not well exposed; Lower: Dark gray siliceous shale with small silvery gray flakes of burrstone-forming unit)
  - Kps**  
Sully Member  
(Upper: Verendrye facies (Kpsv); Gray to brown clayey shale with clayey gumbo; Lower: Agency facies (Kpsl); Gray siliceous shale with bentonites, weathers to light gray paper-thin flakes, burrstone-forming unit)

##### DRAINAGE

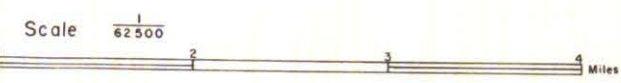
- Intermittent Streams
- Intermittent Lakes

##### 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 J. C. Mickelson  
Assisted by A. F. Klein, Jr.  
Surveyed in 1950

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



APPROXIMATE MEAN  
DECLINATION 1948