

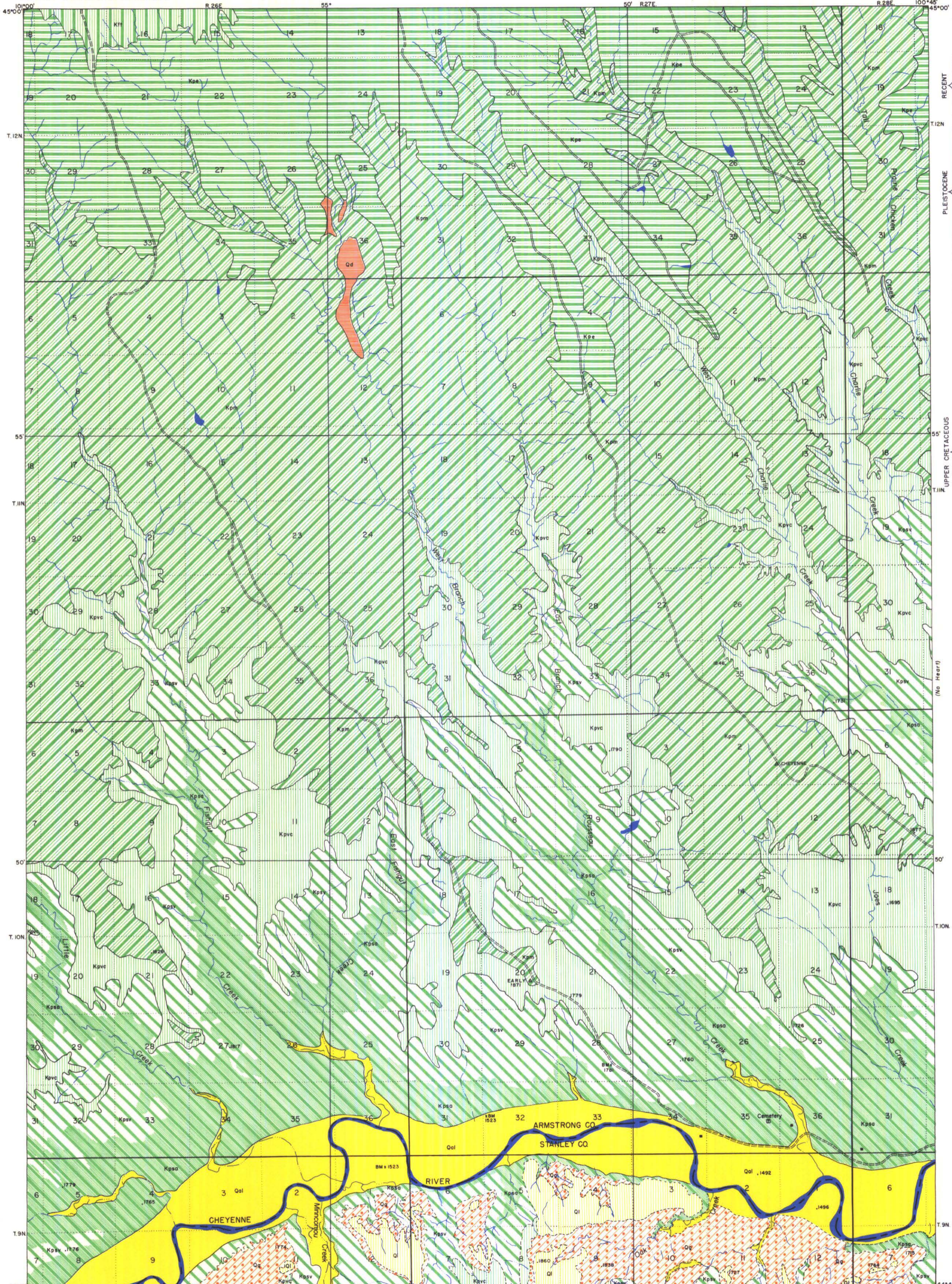
AREAL GEOLOGY

OF THE

ROUSSEAU CREEK QUADRANGLE

STATE OF SOUTH DAKOTA
SIGURD ANDERSON, GOVERNOR

STATE GEOLOGICAL SURVEY
E.P. ROTHROCK, STATE GEOLOGIST



EXPLANATION

SEDIMENTARY ROCKS

- Qal**
Alkuvium
(Flood plain deposits of silt, sand, and gravel in present stream valleys.)
- Ql**
Loess
(Wind deposited silt.)
- Qd**
Deltaic Beds
(Deltaic deposits in glacial lake.)
- Qs**
Gravel
(Sands and gravels of western origin, containing considerable white chert and broken agate.)
- Ktr**
Trail City Member
(Brown sandy shale with sandy fossiliferous limestone concretions.)
- Kpe**
Elk Butte Member
(Pale grey bentonitic clay containing numerous red-disk brown layers and an occasional bentonite.)
- Ksm**
Mobridge Member
(Buff and grey slightly calcareous clay in lower part; numerous red-disk brown layers and occasional bentonite.)
- Kpvc**
Virgin Creek Member
(Dark grey fissile, siliceous shale with numerous bentonites in lower part and with numerous white limestone concretions in upper part.)
- Kpsa**
Sully Member
(Upper Sully facies (Kpsv) Brown bentonitic clay with numerous ferruginous concretions. Lower Agency-Osage transition facies (Kpsa) Light grey bentonite bands and few Fe-Mn concretions upper part; light grey, 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 J.M. Wilson
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

1952

