

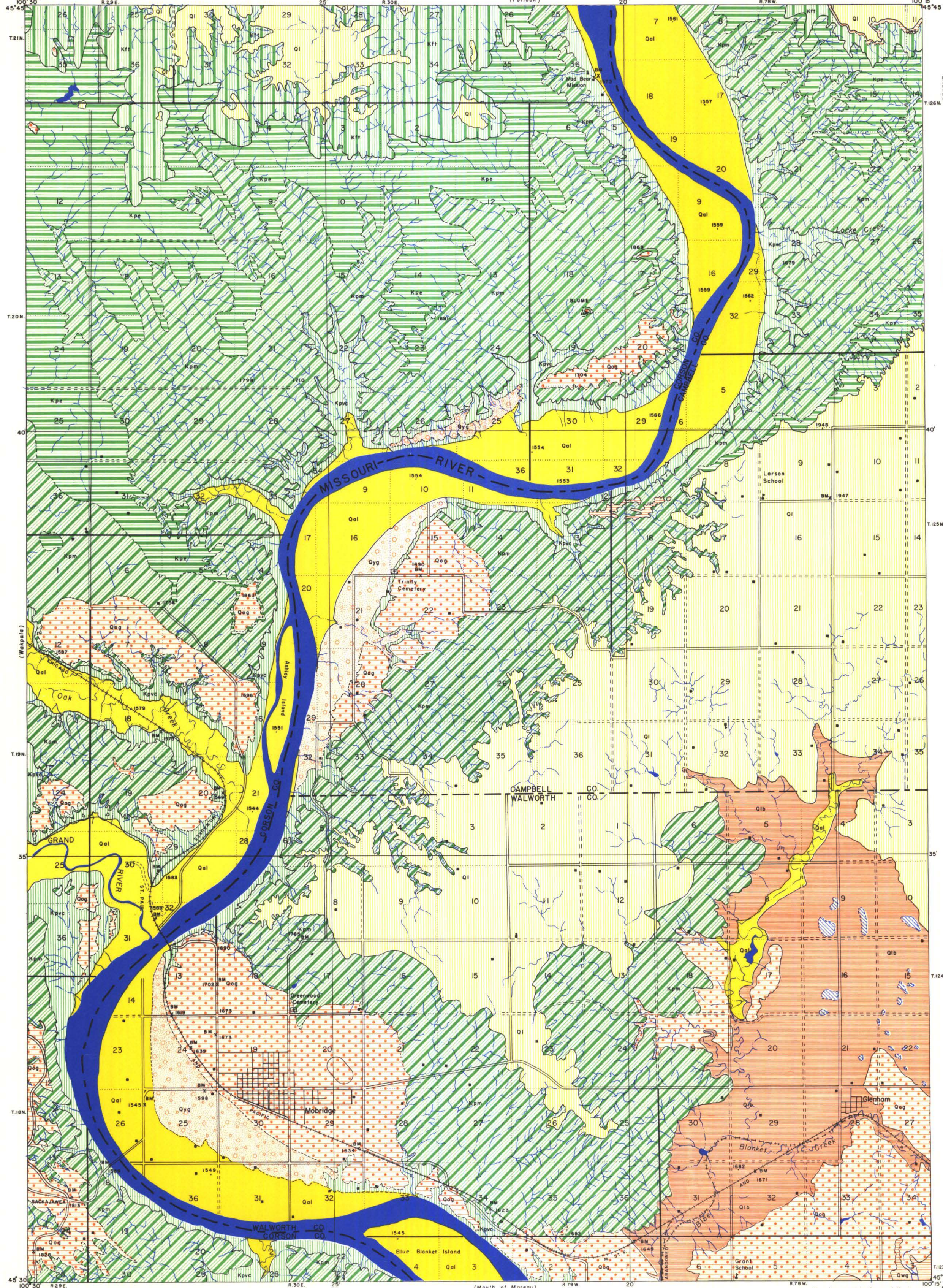
# AREAL GEOLOGY

## OF THE

### MOBRIDGE QUADRANGLE

STATE OF SOUTH DAKOTA  
SIGURD ANDERSON, GOVERNOR

STATE GEOLOGICAL SURVEY  
E. P. ROTHROCK, STATE GEOLOGIST



#### EXPLANATION

##### SEDIMENTARY ROCKS

- Qal**  
**Alluvium**  
(Flood plain deposits of silt, sand, and gravel in present stream valleys.)
- Ql**  
**Loess**  
(Wind blown silt covering glacial ground moraine east of Missouri River and Fox Hills formation west of river.)
- Qyg**  
**Younger Gravels**  
(Post-glacial gravel and sand terraces, loess covered.)
- Qlb**  
**Lake Beds**  
(Thin bedded silt and clay deposited in glacial Lake Arkose, loess covered.)
- Qwa**  
**Ground Moraine**  
(Undifferentiated drift dominantly boulder clay.)
- Qog**  
**Older Gravels**  
(Pre-glacial and intra-glacial gravel and sand terraces, loess covered.)
- Ktl**  
**Timber Lake and Trail City Members, Undifferentiated**  
(Upper: Timber Lake Member yellow friable sandstone with fossiliferous concretions, cliff forming. Lower: Trail City Member gray silt clay, silt and sand silt, with fossiliferous concretions.)
- Kpe**  
**Elk Butte Member**  
(Faintly weathering bluish gray clay characterized by fine-textured drapage and blowouts.)
- Kpm**  
**Mobridge Member**  
(Interbedded gray clay and calcareous clay, in upper part buff weathering interbedded with bluish gray clay.)
- Kvc**  
**Virgin Creek Member**  
(Upper facies: Dark gray clay, bentonitic. Lower facies: Dark gray siliceous bentonitic clay, sufficiently fine to form steep banks on Missouri River.)

##### 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 C. L. Baker  
Assisted by Carl Carlson  
Surveyed in 1950.

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

