



LEGEND

SEDIMENTARY ROCKS
 (Areas of subaqueous deposits are shown by patterns of parallel lines; subaerial deposits by patterns of dots and circles)

Qal Alluvium
 (alluvial sand and gravel deposited in Sheyenne and Spirit valleys chiefly during glacial time)

Qo Talus slopes of first
 (in the Sheyenne Valley)

Qgs Glacial stream deposits
 (occupying channels flowing in terminal moraine system in order to Sheyenne River system indicated by numbers)

Old channels of Sheyenne River

Lower terrace deposits of Sheyenne River and of Maple River system

Higher terrace deposits of Sheyenne River

Highest terrace deposits of Sheyenne River

Qsp Stratified sand and gravel of Sand Prairie glacial lake

Qsd Sheyenne River delta sand deposited in Lake Agassiz
 (fine sand, its pure covering subaerial moraine hills)

Qld Littoral deposits of Lake Agassiz
 (assorted sand and gravel)

Herman Beach of Lake Agassiz
 (where beach is not distinct, approximate shore line indicated by dashed line)

Qo Outwash plains
 (stratified sand and gravel overlying till)

Qe Esker
 (narrow ridge of stratified drift)

Qtm Terminal moraines

Qgm Ground moraine
 (all sheets)

Ksp Pierre shale
 (in part thinly covered by drift kpd)

Sheyenne River deposits

Glacial Lake Agassiz deposits

Glacial deposits

QUATERNARY

CRETACEOUS

Henry Gannett, Chief Topographer.
 Jno. H. Renshaw, Topographer in charge.
 Control by H.L. Baldwin Jr.
 Topography by Van H. Manning and H.S. Wallace.
 Surveyed in 1894-95.

APPROXIMATE MEAN DECLINATION 1906.

Scale 1:25,000
 Contour interval 20 feet.
 Datum is mean sea level.
 Edition of April 1909.

DIAGRAM OF TOWNSHIP

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30

Geology by Daniel E. Willard,
 under the supervision of N.H. Darton.
 Surveyed in 1903 and 1904.