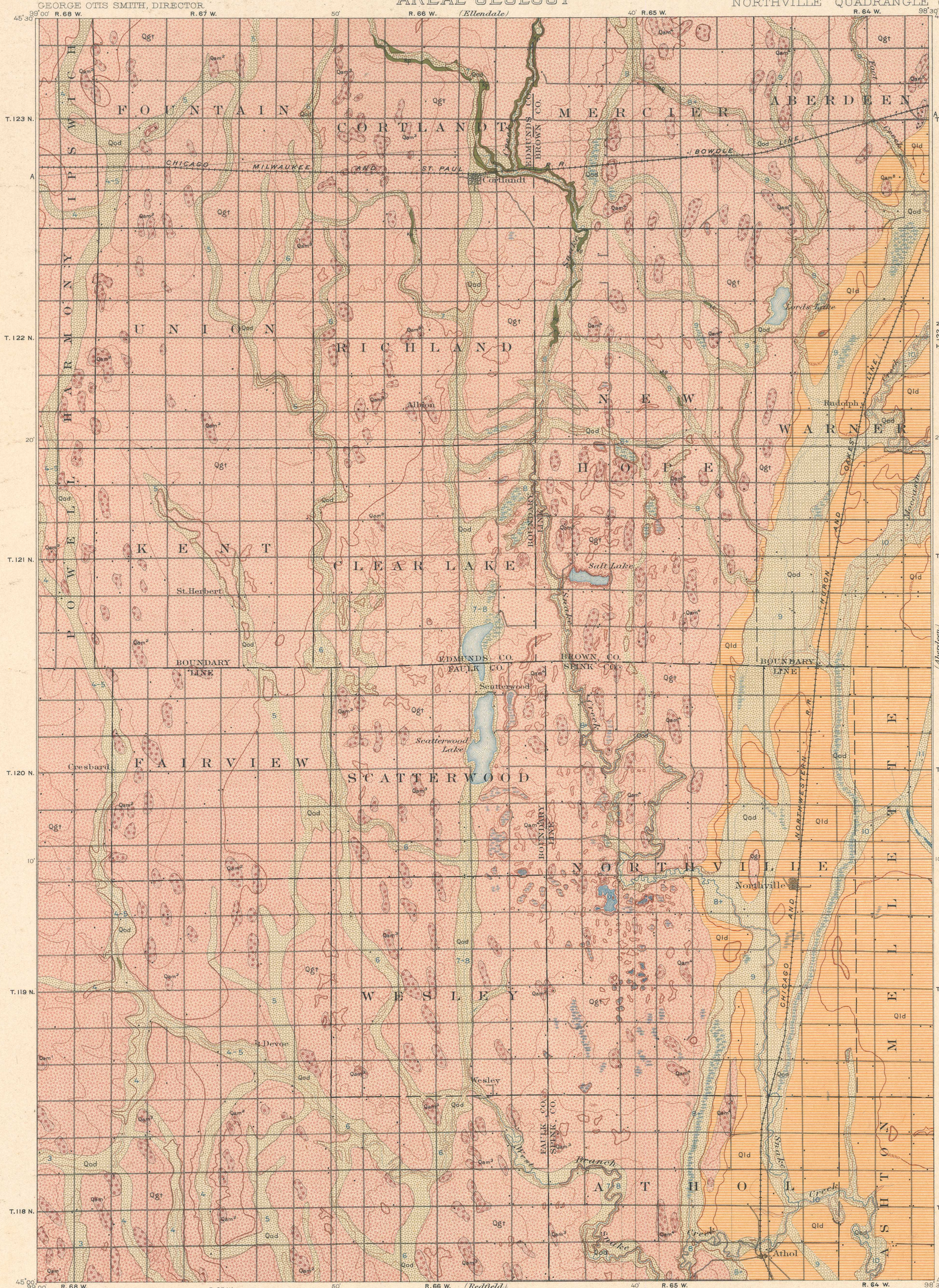
U.S. GEOLOGICAL SURVEY
GEORGE OTIS SMITH, DIRECTOR

AREAL GEOLOGY

SOUTH DAKOTA
NORTHVILLE QUADRANGLE



LEGEND

SEDIMENTARY ROCKS

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

QUATERNARY

Wisconsin stage of Pleistocene epoch

- Qld — Lake Dakota silt
- Qod — Old stream deposits *(occupying channels of glacial streams; chronologic order indicated by numbers in blue)*
- Qgt — Glacial till *(unstratified clay, sand, and gravel)*
- Qam — Antelope moraine *(successive positions of the retreating ice shown by numbers)*

CRETACEOUS

- Kp — Pierre shale *(dark-gray clay or soft shale)*

Henry Gannett, Chief Topographer.
Jno. H. Renshawe, Topographer in charge.
Control by Geo. T. Hawkins.
Topography by D. C. Harrison and H. S. Wallace.
Surveyed in 1893-94-95.

TRUE NORTH
MAGNETIC NORTH
13°
APPROXIMATE MEAN DECLINATION 1908.

Scale $\frac{1}{125000}$

1 ½ 0 1 2 3 4 5 Miles

1 ½ 0 1 2 3 4 5 Kilometers

Contour interval 20 feet.
Datum is mean sea level.
Edition of Nov. 1908.

DIAGRAM OF TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Geology by J. E. Todd,
under supervision of N. H. Darton.
Surveyed in 1904-1905.