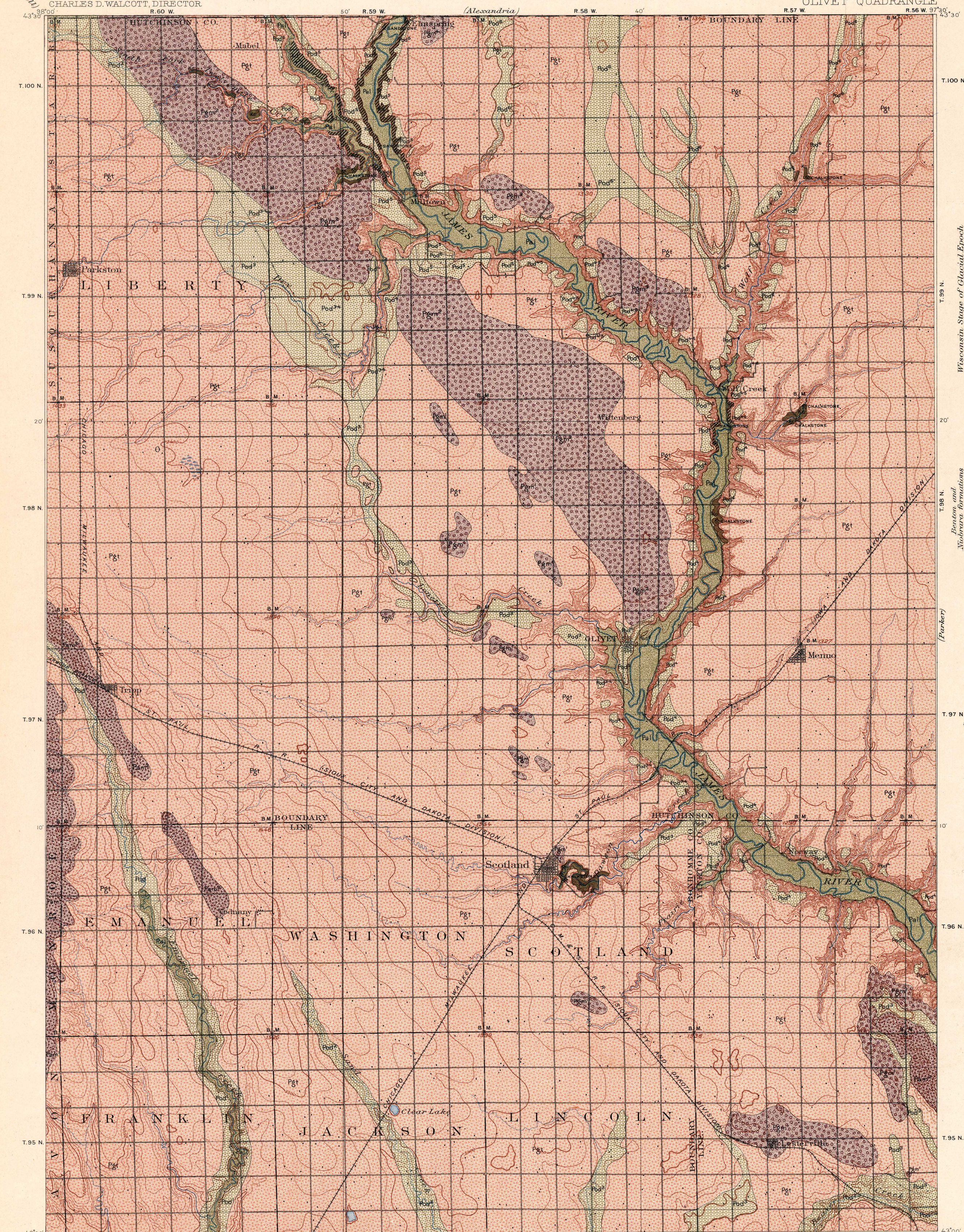


U.S. GEOLOGICAL SURVEY
CHARLES D. WALCOTT, DIRECTOR

AREAL GEOLOGY SHEET

SOUTH DAKOTA
OLIVET QUADRANGLE



LEGEND

SURFICIAL ROCKS

(Areas of surficial rocks are shown by patterns of dots and circles)

- Pal**
Alluvium
(only the larger deposits represented)
- Pod**
Old stream deposits
(occupying channels of glacial streams; chronologic order indicated by numbers)
- Pgm**
Glacial moraine
(approximate positions of the retreating ice in this quadrangle shown by numbers)
- Pgt**
Altamont moraine
(approximate positions of the retreating ice in this quadrangle shown by numbers)
- Pgt**
Glacial till
(unstratified clay, sand and gravel)

SEDIMENTARY ROCKS

(Areas of sedimentary rocks are shown by patterns of parallel lines)

- Kc**
Colorado group
(shale and soft limestone or chertstone)
- Kd**
Dakota formation
(sandstone and shale)

Quarries

Approximate positions of dividing lines between old stream deposits of different ages are shown by dotted boundaries.

* Since this map was printed it has been recognized that the sandstone here called Dakota is probably a member of the Benton formation, 250 to 300 feet above the Dakota.
March, 1901.

Jno. H. Renshaw, Topographer in charge.
Control by Geo. T. Hawkins.
Topography by Wm. H. Griffin.
Surveyed in 1896.

Scale 1:25,000
1 1/2 0 1 2 3 4 5 Miles
1 1/2 0 1 2 3 4 5 Kilometers
Contour interval 20 feet.
Datum is mean sea level.
Edition of Aug. 1902.

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

Geology by J.E. Todd.
Surveyed in 1898.