

LEGEND

SEDIMENTARY ROCKS
(Areas of subaqueous deposits are shown by patterns of parallel lines)

Cwl
Winslow formation and Akins shale member
shaly to thin bedded sandstone and shale with quartz conglomerate locally at the base and coal bearing shale member at the top

Cmr
Morrow formation and Hale sandstone lentil
light blue limestone with blue shale with an occasional sandstone lentil at the base

Cp
Pitkin limestone
reddish-brown shaly limestone grading into massive bluish limestone

Cfv
Fayetteville formation and Wedington sandstone member
black to blue shaly shale and sandy shale with thin layers of sandstone and phosphatic concretionary at base, locally variable in thickness

Cbn
Boone formation
black and shaly limestone with local light blue limestone at base

Cbr
Chattanooga formation and Sylamore sandstone member
massive black shale with massive brown sandstone and phosphatic concretionary at base, locally variable in thickness

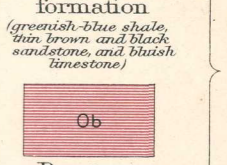
Ssc
St. Clair marble
pinkish-white, coarsely crystalline marble

Or
Tyner formation
greenish-blue shale, thin layers of black sandstone, and bluish limestone

Ob
Burgess sandstone
thick bedded and massive brown to white sandstone

Faults

h^o Strike and dip of stratified rocks



Pennsylvanian

Mississippian

Devonian

Silurian

Ordovician

C.H. Fitch, Topographer in charge.
Van H. Manning, Topographer, Assistant in charge.
Triangulation by C.F. Unghart.
Topography by R.H. Mc Kee, J. Ahern, C.W. Goodlove, and H.B. Blair.
Surveyed in 1896-97-98.

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 50 feet.
Datum is mean sea level.
Edition of Mar. 1905

DIAGRAM OF TOWNSHIP

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

Geology by Joseph A. Taff,
assisted by G.I. Adams and C.N. Gould.
Surveyed in 1901.