

STRUCTURE SECTIONS

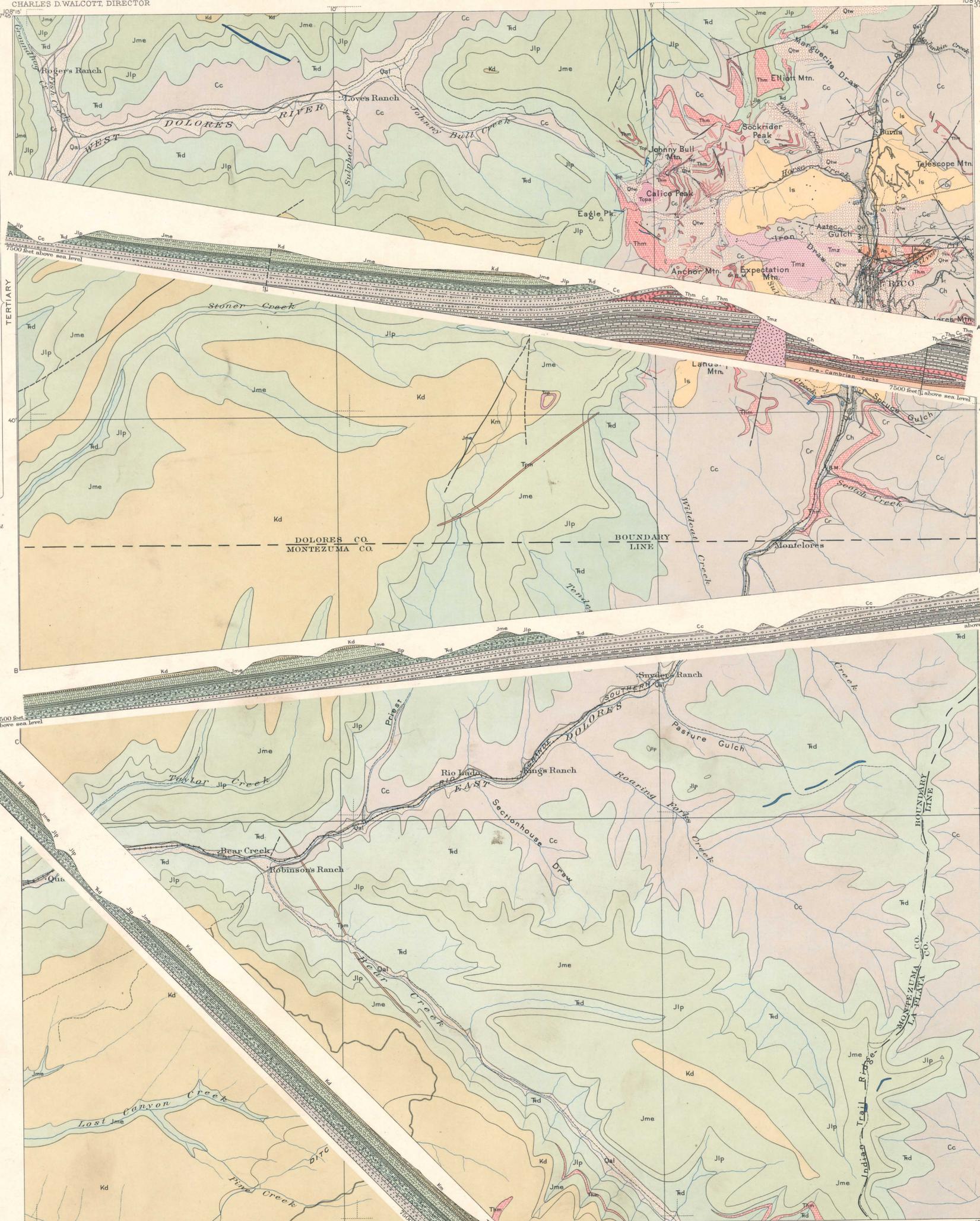
COLORADO
RICO QUADRANGLE

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

LEGEND

(continued)

- SHEET SYMBOL** **SECTION SYMBOL**
- IGNEOUS ROCKS**
- Basic dikes (includes several allied rocks the most common being augite-voigtite)
 - Dikes of Calico Peak porphyry (monzonite porphyry characterized by large orthoclase crystals)
 - Calico Peak porphyry unmineralized (porphyry changed by solution action into a mass consisting chiefly of chlorite)
 - Monzonite (a granular rock forming a large stock)
 - Pyroxenic monzonite porphyry (occurs in dikes)
 - Hornblende monzonite porphyry (the common intrusive rock of the Rio Montezuma area in dikes and small masses)
 - Faults (doubtful location indicated by dashes)
 - Concealed faults (covered by younger deposits)



LEGEND

- SHEET SYMBOL** **SECTION SYMBOL**
- LANDSLIDES**
(a confused mixture of large and small blocks of various formations from the slopes above)
- SEDIMENTARY ROCKS**
- Calcareous tufa (in terraces and mounds)
 - Torrential fans (accumulations of loose rock fragments on steep slopes or ravines and gulches)
 - Alluvium (sands, gravels, and silt of valleys)
 - Talus and wash
 - Mancos shale (dark shale with local calcareous and sandy layers fossiliferous. Includes Kenton and Niobrara formations and part of the Pierre)
 - Dakota sandstone (indurated quartzose sandstone with carbonaceous shale locally containing coal)
 - Mo Elmo formation (alternating sandstones and shales)
 - La Plata sandstone (massive white sandstone with thin, blue limestone and calcareous shale locally containing coal)
- UNCONFORMITY**
- Dolores formation (calcareous shale and conglomerate, locally fossiliferous, prevailing color bright red)
 - Cutler formation (sandstone, gray, concretionary, and some calcareous shale, prevailing color red)
 - Rico formation (sandstone, limestone, and shale of red or gray color, fossiliferous)
 - Hermosa formation (sandstone, shale, and limestone of grayish color, fossiliferous)
 - Ouray limestone (white or light pink, well-bedded limestone with a few quartzite layers, fossiliferous)
 - Ignacio quartzite (thin bedded, gray or pink, waxy quartzite, with local markings on steep portions)
 - Uncompahgre formation (massive white or gray quartzite, locally conglomeratic)
- METAMORPHIC ROCKS OF UNKNOWN ORIGIN**
- Schist (dense, bluish-gray rocks with submineral structure)
- Legend is continued on the left margin.

Henry Gannett, Chief Topographer.
E. M. Douglas, Topographer in charge.
Triangulation by E. M. Douglas.
Topography by T. M. Bannon and W. M. Beaman.
Surveyed in 1884 and 1898.

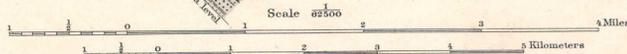


DIAGRAM OF TOWNSHIP

6	15	24	33
12	21	30	39
18	27	36	45
24	33	42	51
30	39	48	57
36	45	54	63

Geology by Whitman Cross and Arthur C. Spencer,
assisted by Ernest Howe, J. D. Irving, and R. D. George.
Surveyed in 1897-8-9.

Corrected positions of meridians and parallels shown by intersections of dotted lines.
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