LEGEND

SEDIMENTARY ROCKS

QUATERNARY — *Pleistocene and Recent*

- Qag — Alluvium and glacial deposits

JURASSIC OR TRIASSIC

- T̶n — Nugget sandstone (*Coarse, pebbly, white sandstone containing petrified wood*)

TRIASSIC — *Lower Triassic*

- T̶a — Ankareh shale (*Chiefly red shale, ripple marked and mud cracked, including thin beds of white sandstone and gray limestone*)
- T̶t — Thaynes formation (*Comprises limestones, calcareous sandstones, and shales; more calcareous upper portion separated from more sandy lower by "mid-red" shales. Abundant fossils*)
- T̶w — Woodside shale (*Uniformly fine-grained dark-red shales*)
- T̶m — Metamorphic sediments (*Includes limestone, marble, sandstone, argillites, etc. Age unknown, probably Triassic*)

CARBONIFEROUS — *Permian*, *Pennsylvanian*

- Cpc — Park City formation (*Mainly pure, blue, cherty, and gray limestones; minor quantities of shale and sandstone*)
- Cw — Weber quartzite (*Massive-bedded light-gray quartzite with few intercalated limestone beds*)
- Cl — Undifferentiated limestones in Park City district (*include intercalated members in Weber quartzite and isolated blocks in igneous rocks*)

PALEOZOIC

- und — Undifferentiated limestones in Cottonwood district (*Mainly Carboniferous, but probably in part Devonian; include Cambrian limestone where this is not separated*)

CAMBRIAN

- Єls — Limestone (*Separately mapped only near Alta*)
- Єsh — Shale and interbedded limestone
- Єq — Quartzite (*Includes some pre-Cambrian near American Fork*)

PRE-CAMBRIAN

- qt — Quartzite and tillite

Contact-metamorphic zones
T̶tm, marble in Thaynes formation
T̶wm, argillite in Woodside shale
Cpm, marble in Park City formation

(Legend continued on left margin)

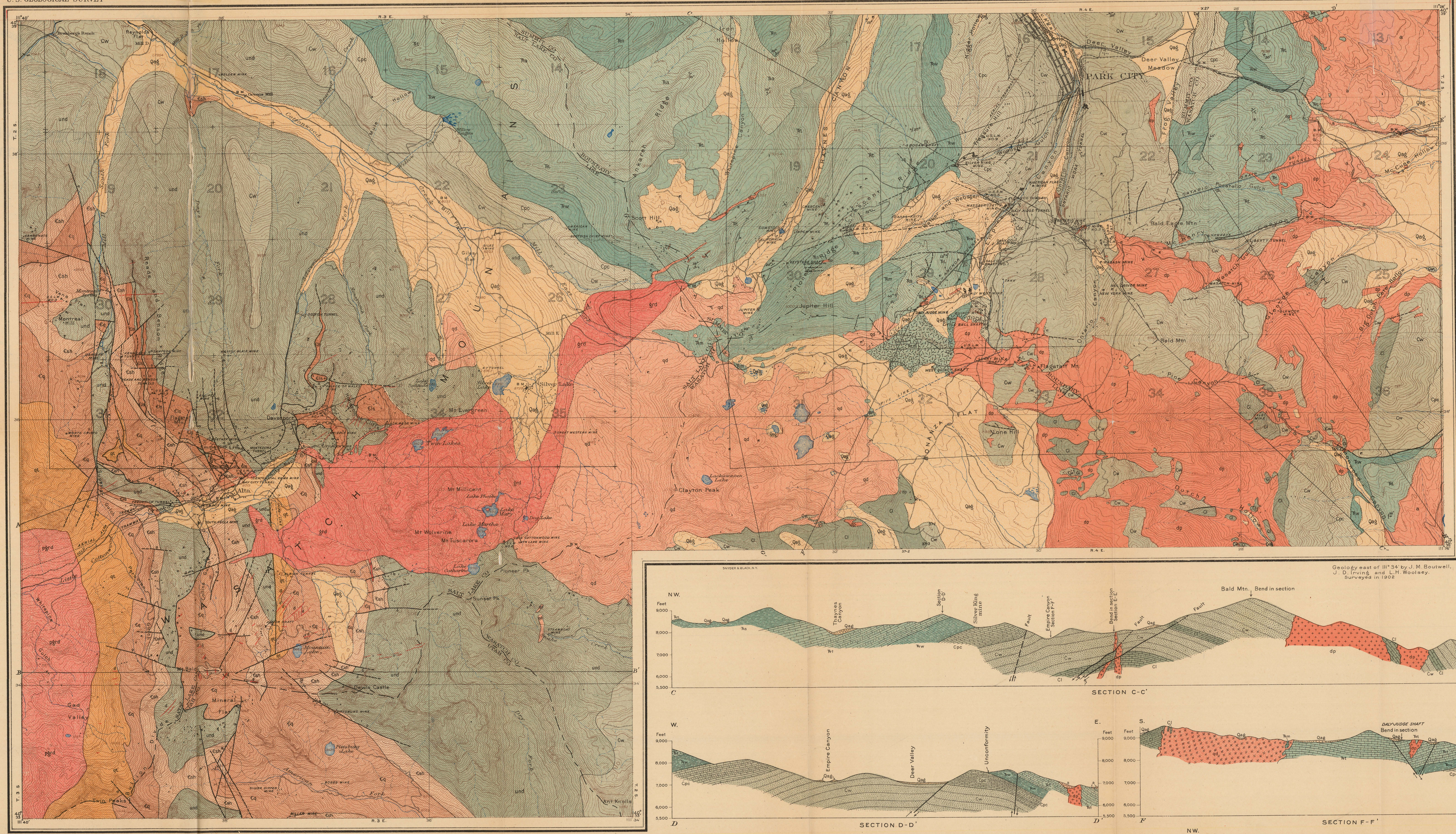
IGNEOUS ROCKS

POST-CARBONIFEROUS

- a — Andesite (*Great series of extrusive lava flows with sediments, coal, and waterworn gravels, interbedded locally*)
- dp — Quartz diorite porphyry (*Irregular stocks and dikes*)
- qd — Quartz diorite (*Extensive stock*)
- grd — Granodiorite
- pgrd — Porphyritic granodiorite
- d — Dikes (*Various intrusive rocks*)

SYMBOLS

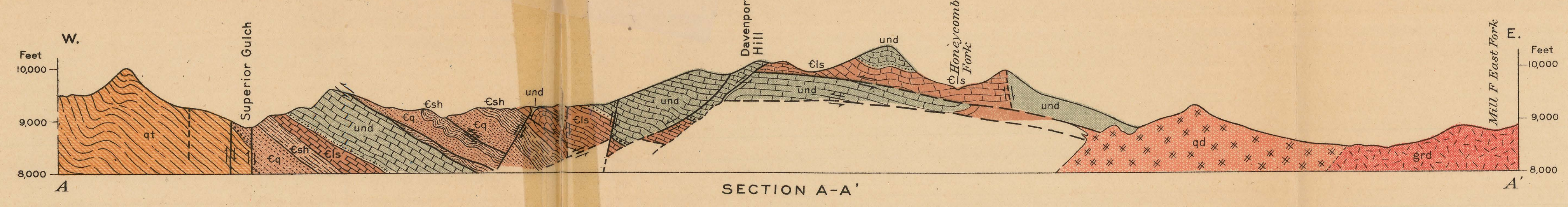
- Known formation boundary
- Probable formation boundary
- Dip and strike of strata
- Known fault
- Probable fault
- Dip of fault plane
- Downthrown side of normal or drop fault and overridden side of thrust fault
- Shaft
- Tunnel
- Prospect
- Mine dump



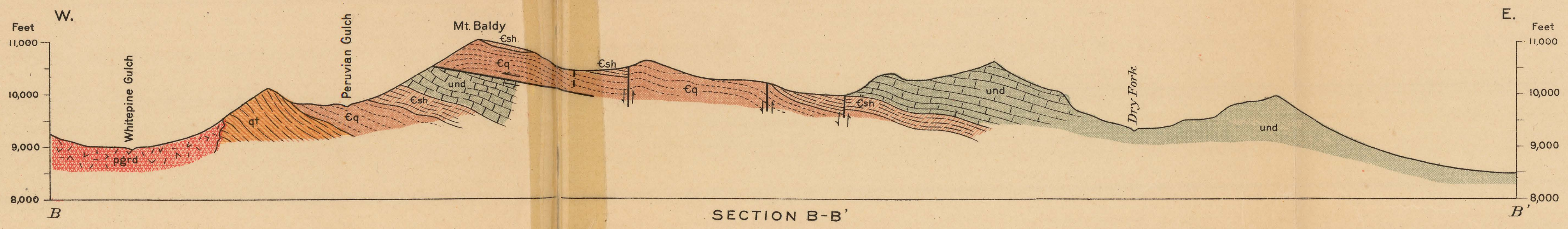
Base from Cottonwood and Park City topographic maps

Geology west of 111° 34′ by B. S. Butler, F. C. Calkins, F. F. Hintze, and G. F. Loughlin

Geology east of 111° 34′ by J. M. Boutwell, J. D. Irving and L. H. Woolsey. Surveyed in 1902



SECTION A-A′

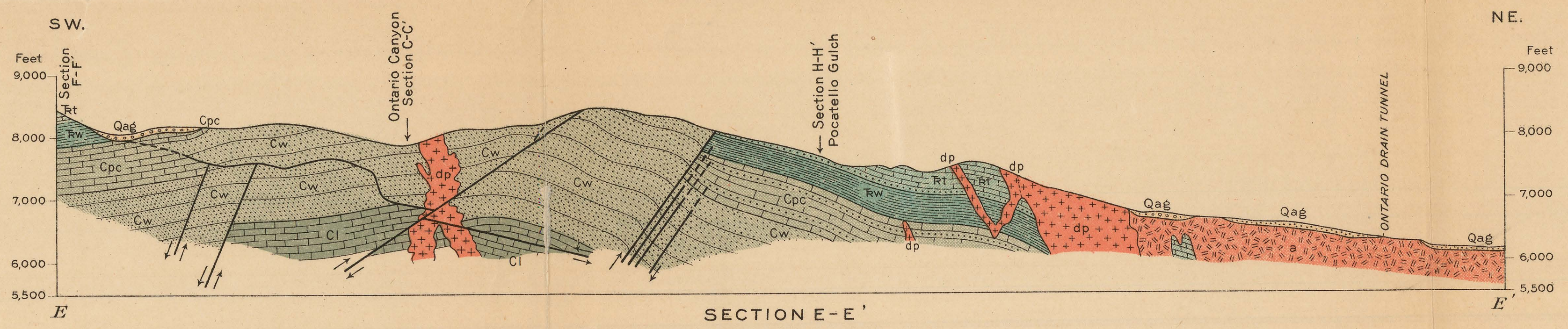


SECTION B-B′

SECTION C-C′

SECTION D-D′

SECTION F-F′



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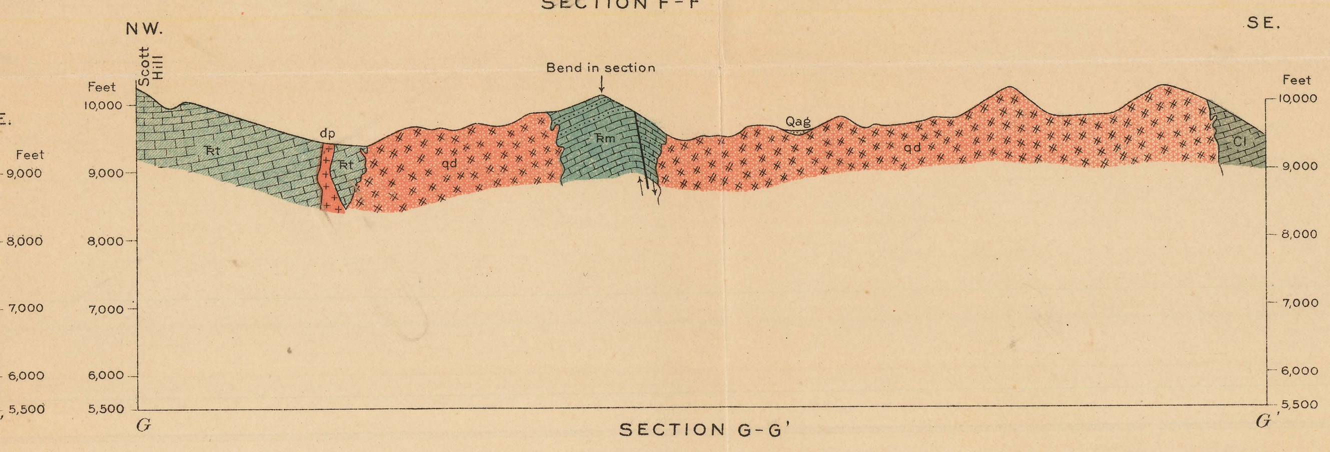
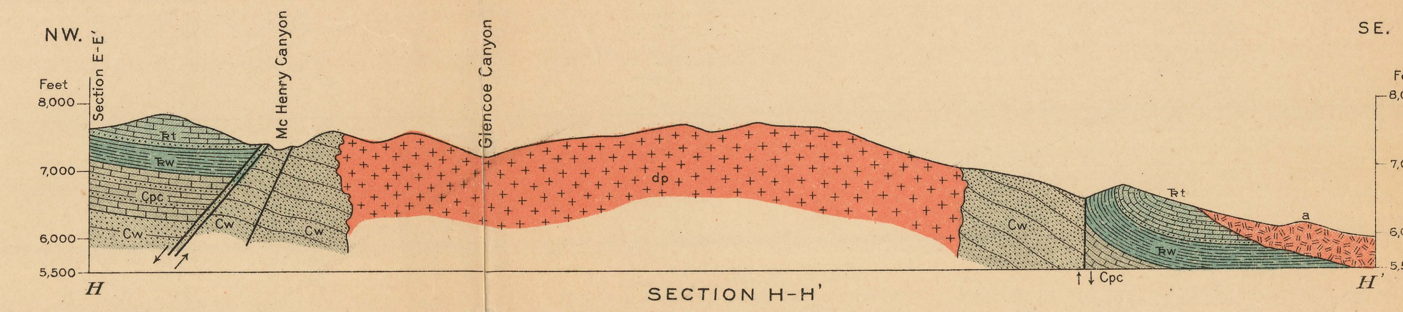


SECTION G-G′



SECTION H-H′

GEOLOGIC MAP OF THE COTTONWOOD AND PARK CITY DISTRICTS, UTAH

THE MAPPING WEST OF 111° 34′ IS PRELIMINARY

Scale 1/25000

Contour interval 50 feet.
Datum is mean sea level.

Readjustment of levels shows that elevations east of 111° 34′ are 11 feet too high

1918