

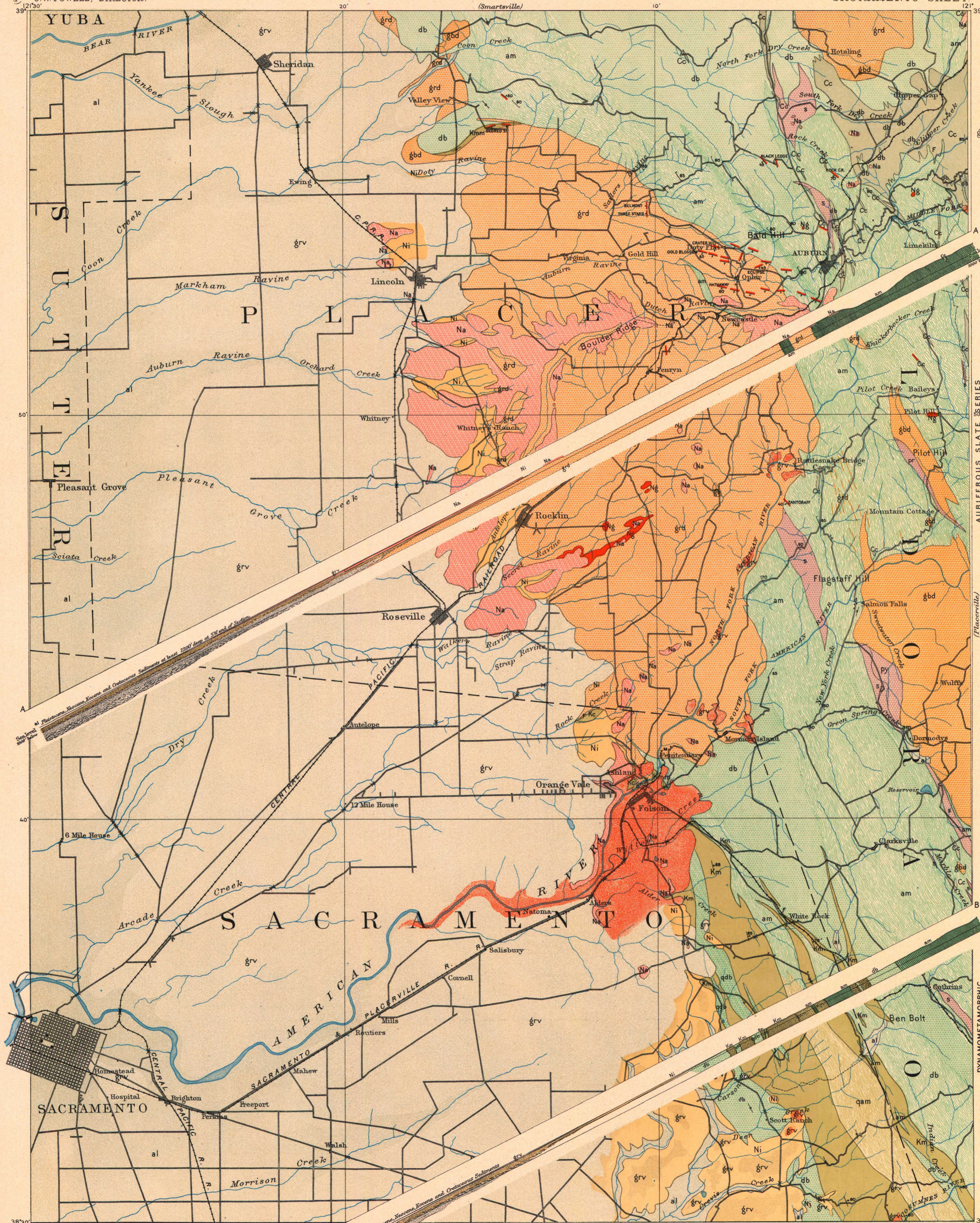
(Marysville)

U.S. GEOLOGICAL SURVEY.
J. W. POWELL, DIRECTOR.

STRUCTURE SECTIONS

CALIFORNIA
SACRAMENTO SHEET

LEGEND



- SUPERFICIAL**
 - al Alluvium
 - grv Shore and river gravels, sands, and shingles (river gravels frequently quartzite)
- PLEISTOCENE**
- SEDIMENTARY**
 - Ng Auriferous river gravels
 - Ni Lone formation (Clays, sand and gravel, some coal seams)
 - Kc Chico formation
- NEOGENE**
- SEDIMENTARY (metamorphic)**
 - Km Mariposa slates (early Cretaceous or late Jurassic age, roofing slates, quartz veins)
 - Kmm Contact metamorphic rock (of age of Mariposa slates)
- CRETACEOUS**
- AURIFEROUS SLATE SERIES**
 - Cc Calaveras formation (lates, shales and limestones possibly in part early Miocene and older Tertiary)
- CARBONIFEROUS**
- IGNEOUS**
 - Na Andesite (fragmental)
 - grd Granodiorite (containing locally numerous gold quartz veins)
 - gbd Gabbro diorite (facies of the granodiorite)
 - gb Gabbro (facies of granodiorite)
 - pr Peridotite
 - py Pyroxenite
 - s Serpentine
 - db Diabase and diabase-porphyrite
- NEOGENE**
- AGE OF MARIPOSA SLATES AND OLDER**
 - qdb Quartz-diorite
 - qam Amphibolite (and schistose quartz-diorite-porphyrite)
 - am Amphibolite (principally derived from diabase, contains some gold quartz veins)
- DYNAMOMETAMORPHIC**

Henry Gannett, Chief Geographer.
A. H. Thompson, Geographer in charge.
Triangulation by H. M. Wilson.
Topography by H. M. Wilson and A. F. Dunnington.
Surveyed in 1887-9.



Scale 125,000
Contour Interval 100 feet

Edition of July 1893.

Geo. F. Becker, Geologist in charge.
Geology by W. Lindgren.
Surveyed in 1889-90.

(Jackson)