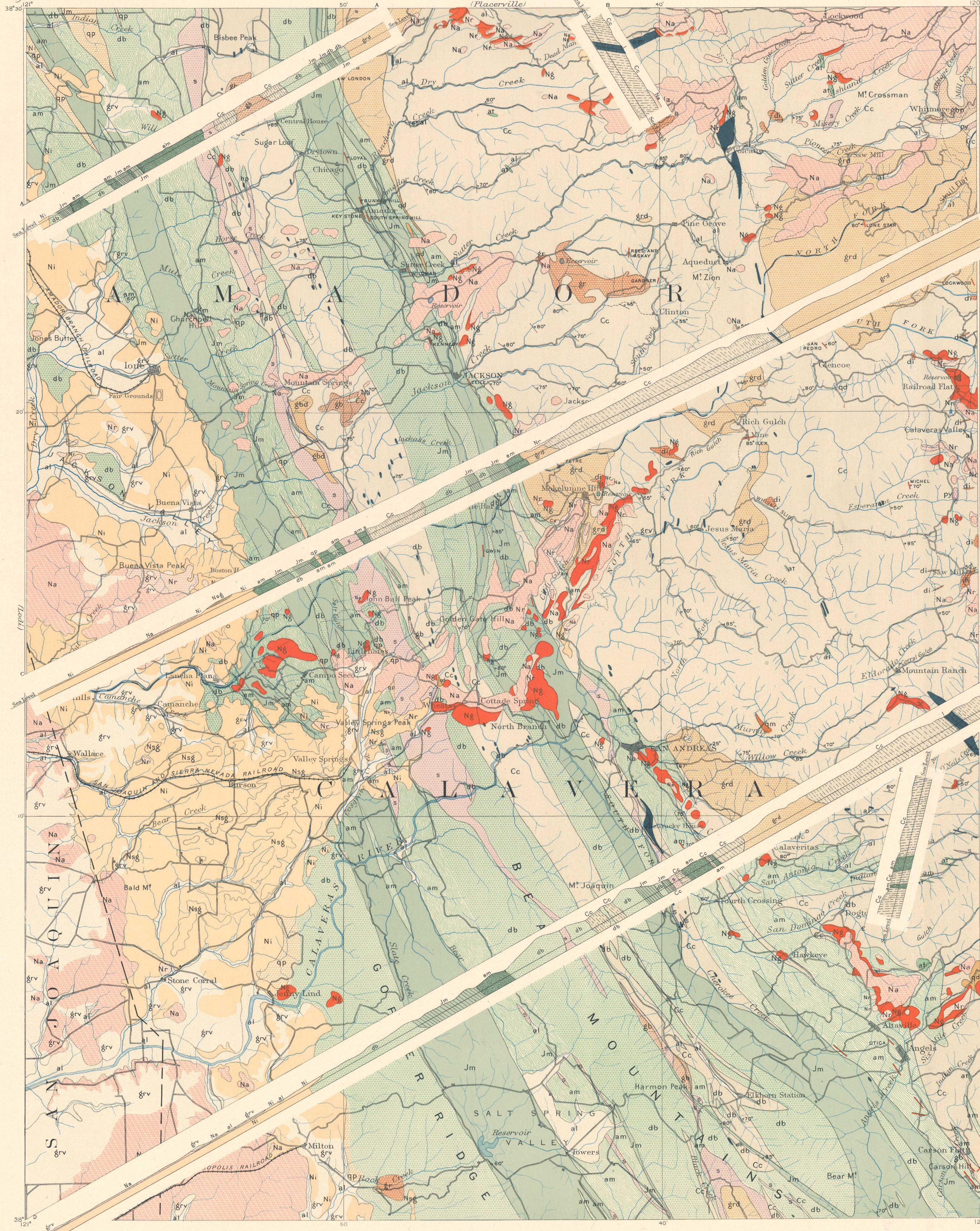


U.S. GEOLOGICAL SURVEY  
J. W. POWELL, DIRECTOR.

STRUCTURE SECTIONS

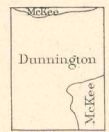
CALIFORNIA  
JACKSON SHEET

LEGEND



- SUPERFICIAL**
- al Alluvium (bottom lands)
  - grv Shore and river gravels and hardpan (the gravels frequently contain gold)
- PLEISTOCENE**
- SEDIMENTARY (unaltered)**
- Ng Auriferous river gravels
  - Nsg Neocene shore gravels
  - Ni Lone formation (sandstone and clay-rock containing iron scales and iron deposits)
- NEOCENE**
- SEDIMENTARY (metamorphic)**
- Jm Mariposa slates (black old slates containing numerous and rich gold quartz veins, roofing slates)
  - Cc Calaveras formation (Argillite, limonite, quartzite and mica schist. Contains gold quartz veins)
- CARBONIFEROUS JURASSIANS**
- NEOCENE**
- IGNEOUS (unaltered)**
- Na Andesite (massive and fragmental)
  - Nr Rhyolite-tuff (with some beds of clay building stone)
  - di Diorite (with primary hornblende needles)
  - grd Granodiorite (containing gold quartz veins)
  - gr Granite
  - qm Quartz-muscovite rock
  - qd Quartz-diorite
  - gbd Gabbro-diorite
  - gpb Gabbro-pyroxenite
  - gb Gabbro
  - py Pyroxenite
  - s Serpentine (contains chromite iron deposits)
  - qp Quartz-porphyrite
  - db Diabase and porphyrite
  - hp Hornblende-porphyrite
- EARLIER THAN THE LATE CRETACEOUS (CHICO FORMATION)**
- IGNEOUS**
- am Amphibolite-schist (derived from diabase, gabbro etc. Contains copper deposits and gold quartz veins)
  - at Amphibolite-schist (derived from pyroxenite etc.)
  - l Limestone lenses
- DYNAMOMETAMORPHIC**
- 100 ft and strike of stratified rocks
  - Vertical dip and strike of stratified rocks
  - Dip and strike of schistosity
  - Gold quartz veins

Henry Gannett, Chief Geographer.  
A. H. Thompson, Geographer in charge.  
Triangulation by H. M. Wilson.  
Topography by A. F. Dunnington and R. H. McKee.  
Surveyed in 1888.



Scale 125,000

Contour Interval 100 feet

Edition of Mar. 1894.

Geo. F. Becker, Geologist in Charge.  
Geology by H. W. Turner.  
Surveyed in 1889-91.