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

STRUCTURE-SECTION SHEET 2

CALIFORNIA
MOTHER LODE DISTRICT

LEGEND

IGNEOUS ROCKS
(continued)

BED-ROCK COMPLEX / CARBONIFEROUS OR JURATRIAS

SHEET SYMBOL	SECTION SYMBOL	
am	am	**Amphibolite** *(derived from basalt, andesite, and other igneous rocks)*
ams	ams	**Amphibolite-schist** *(derived from andesitic tuff and breccia, diorite, and other igneous rocks)*
ats		**Amphibolite-talc-schist**

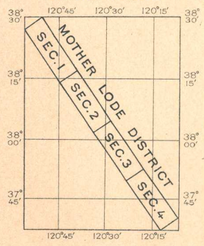
80° Dip and strike of bedded rocks
Vertical dip and strike of stratified rocks
65° Dip and strike of schistosity or cleavage
Vertical dip and strike of schistosity or cleavage
Quartz veins outcropping prominently on the surface

Known productive formations

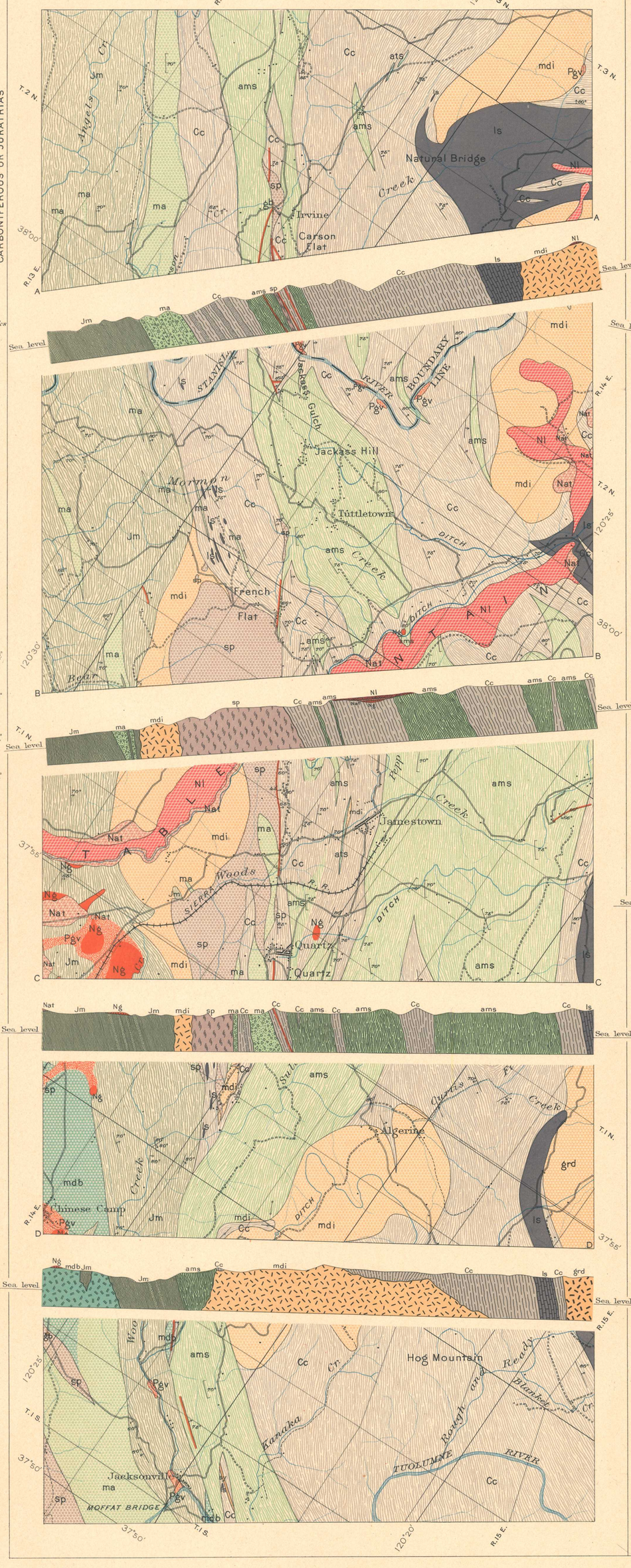
Auriferous river gravels

Limestone (suitable for making lime)

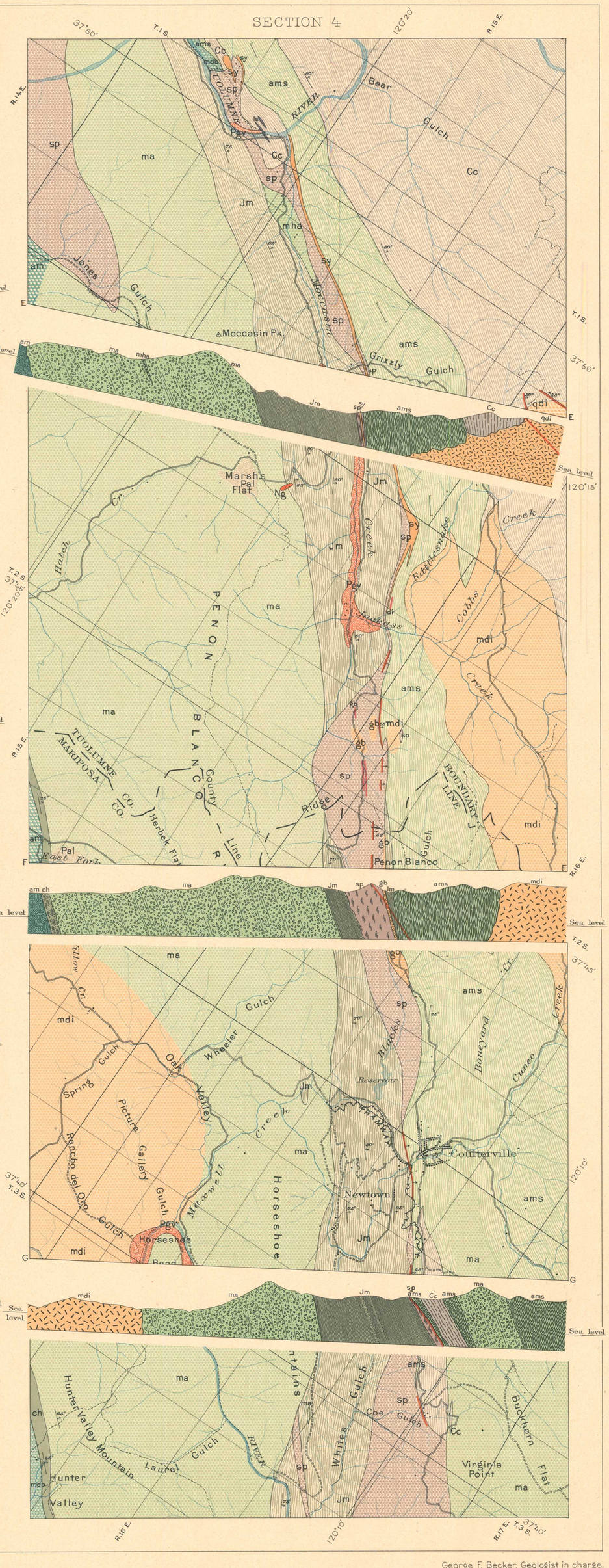
POSITION OF MAPS



SECTION 3



SECTION 4



SECTION 2

SECTION 1

SECTION 5

Scale 1/63360
1/2 0 1 2 3 4 Miles
1 1/2 0 1 2 3 4 5 Kilometers

Edition of May 1900.

R.U. Goode, Geographer in charge.
Topography by E.C. Barnard and A.B. Searle.
Surveyed in 1897.

Barnard / Barnard, Scale

George F. Becker, Geologist in charge.
Geology by F.L. Ransome.
Surveyed in 1898.

LEGEND

SURFICIAL ROCKS

SUPERJACENT SERIES / PLEISTOCENE

SHEET SYMBOL	SECTION SYMBOL	
Pal		**Alluvium** *(bordering streams and filling small valleys)*
Pgv		**River gravels** *(usually auriferous)*

SEDIMENTARY ROCKS

SUPERJACENT SERIES / NEOCENE

SHEET SYMBOL	SECTION SYMBOL	
Ng	Ng	**Auriferous river gravels**

BED-ROCK COMPLEX / JURATRIAS

Jm	Jm	**Mariposa formation** *(clay slate, sandstone, and conglomerate)*

BED-ROCK COMPLEX / JURATRIAS ?

ch	ch	**Cherty beds** *(banded green and chocolate sediments closely associated with the meta-andesitic tuffs)*

BED-ROCK COMPLEX / CARBONIFEROUS

Cc	Cc	**Calaveras formation** *(slaty mica-schists, chiefly biotite-schist, quartzite, conglomerate, clay slate, chert, and limestone)*
ls	ls	**Limestone** *(lenses and irregular masses within the Calaveras formation)*

IGNEOUS ROCKS

SUPERJACENT SERIES / NEOCENE

SHEET SYMBOL	SECTION SYMBOL	
Nl	Nl	**Latite** *(a rock intermediate between andesite and trachyte, lava flows)*
Nat	Nat	**Andesite tuff, breccia, and conglomerate** *(roughly stratified)*

BED-ROCK COMPLEX / JURATRIAS OR EARLY CRETACEOUS

		Small dikes of various rocks *(serpentine, sp, diorite-porphyry, dp, diorite, di, gabbro, gb, and altered rocks)*
sy	sy	**Soda-syenite-granophyre and related syenitic rocks** *(dikes)*
mdi	mdi	**Meta-diorite** *(altered diorites, largely quartz-diorites)*
qdi	qdi	**Quartz-diorite** *(batholithic intrusive masses)*
grd	grd	**Granodiorite** *(batholithic intrusive masses)*
gb	gb	**Gabbro** *(intrusive masses and dikes, usually associated with serpentine)*
sp	sp	**Serpentine** *(derived from peridotite and related basic intrusive rocks)*

CARBONIFEROUS OR JURATRIAS

mdb	mdb	**Meta-diabase** *(altered intrusive diabase and lava flows)*
ma	ma	**Meta-andesite** *(altered andesite breccias, tuffs, and massive lavas, with some altered basalt and diabase)*
mha	mha	**Meta-hornblende-andesite** *(altered hornblende-andesite breccia and tuff)*

Legend is continued on the left margin.