

AREAL GEOLOGY

LEGEND

SEDIMENTARY ROCKS
(Areas of subaqueous deposits are shown by patterns of parallel lines, subaerial deposits by patterns of dots and circles; metamorphisms is indicated by hachures combined with the line patterns.)

Qal
Alluvium
(sand and gravel along present valleys and local talus accumulations)

Qg
Gila conglomerate
(thick fluvial deposits of irregularly bedded conglomerate, sand, and locally conglomeratic)

Kp
Pinkard formation
(alternating brown, sandstone and limestone, sandstone, and limestone, some metamorphosed near porphyry contacts)

Ct
Tule Spring limestone
(heavy-bedded, bluish-gray limestone in northern part of quadrangle; contains Mississippian and Pennsylvanian fossils)

Cm
Modoc limestone
(heavy-bedded gray limestone, sometimes magnesian in lower part; contains Mississippian fossils)

Dm
Morenci formation
(black clay shale with argillaceous limestone locally in lower part)

Ol
Longfellow formation
(heavy-bedded brown limestone shaly and siliceous in lower part; usually cherty and sometimes magnesian)

Cc
Coronado quartzite
(brown and red quartzite, sometimes locally with basal conglomerate)

ps
Pinal schist
(gneissic quartz schist containing small masses of amphibole)

IGNEOUS ROCKS
(Areas of igneous rocks are shown by patterns of triangles and rhombs)

Ta
Andesite
(surface flows and dikes representing two epochs of eruption)

Tb
Basalt
(thick, dark-colored surface flows, rarely surface flows representing two epochs of eruption)

Tr
Rhyolite
(thick, light-colored surface flows with much tuff and breccia; represents three epochs of eruption)

Dikes of rhyolite, basalt, and andesite

gp
Granite-porphyrty, quartz-monzonite-porphyrty, and diorite-porphyrty
(with transition phases; occur in dikes, stocks, and in dikes, stocks, and dikes of diabase, db)

Gr
Granite
(intrusive masses in Pinal schist)

Known faults

Concealed faults
(covered by younger deposits)

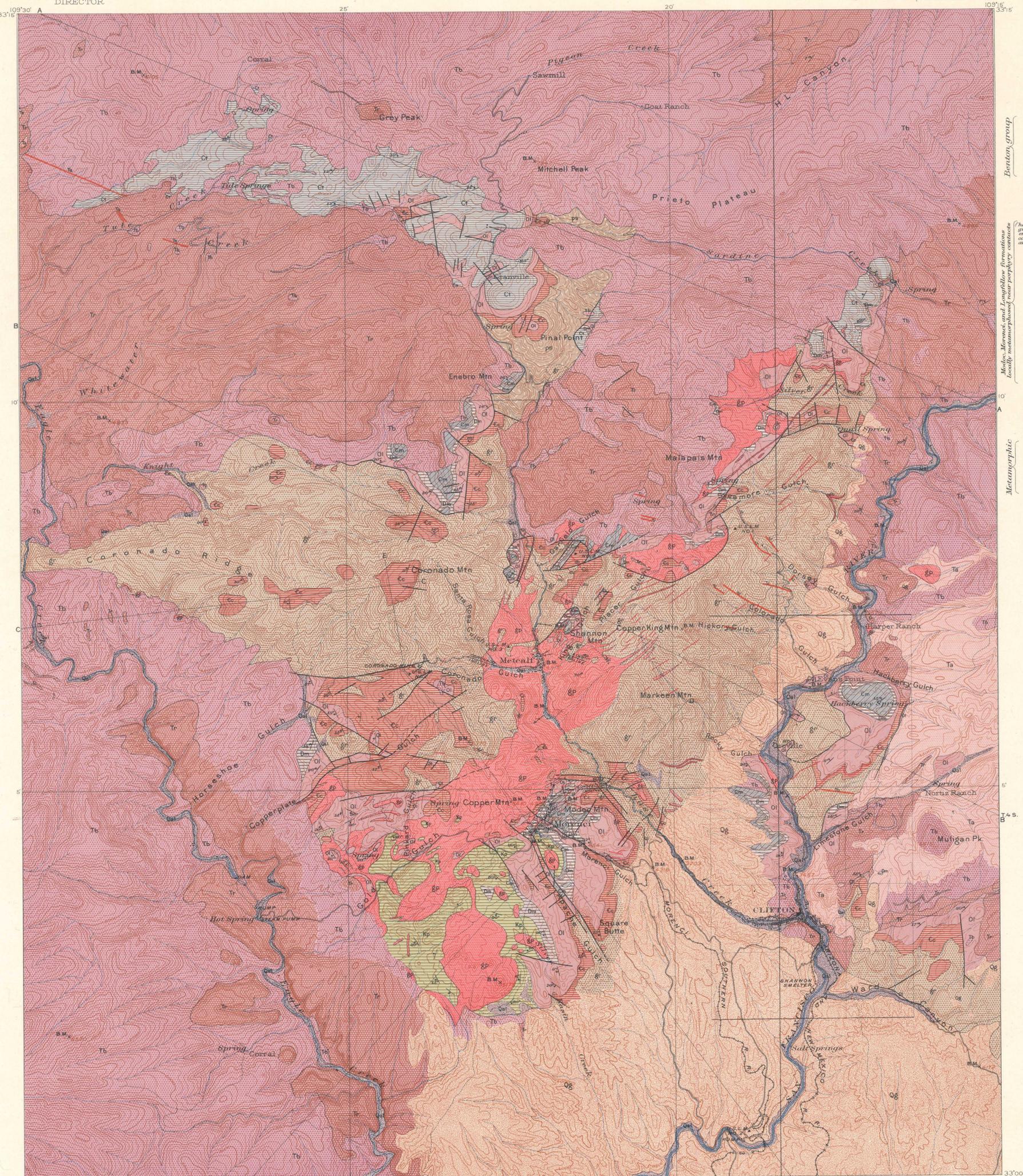
Sections



Benton group
Metamorphic
Miocene-Miocenian
Devonian
Carboniferous
Cretaceous
Quaternary

QUATERNARY
CRETACEOUS
CARBONIFEROUS
DEVONIAN
ORDOVICIAN
CAMBRIAN
PRE-CAMBRIAN

TERTIARY
LATE CRETACEOUS OR EARLY TERTIARY
PRE-CAMBRIAN



E. M. Douglas, Geographer in charge.
Triangulation and topography by Jeremiah Ahern.
Surveyed in 1900-1901.

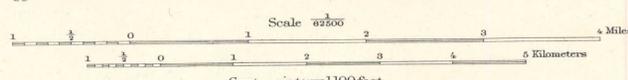


DIAGRAM OF TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

Geology by W. Lindgren and J. M. Boutwell.
Surveyed in 1902.