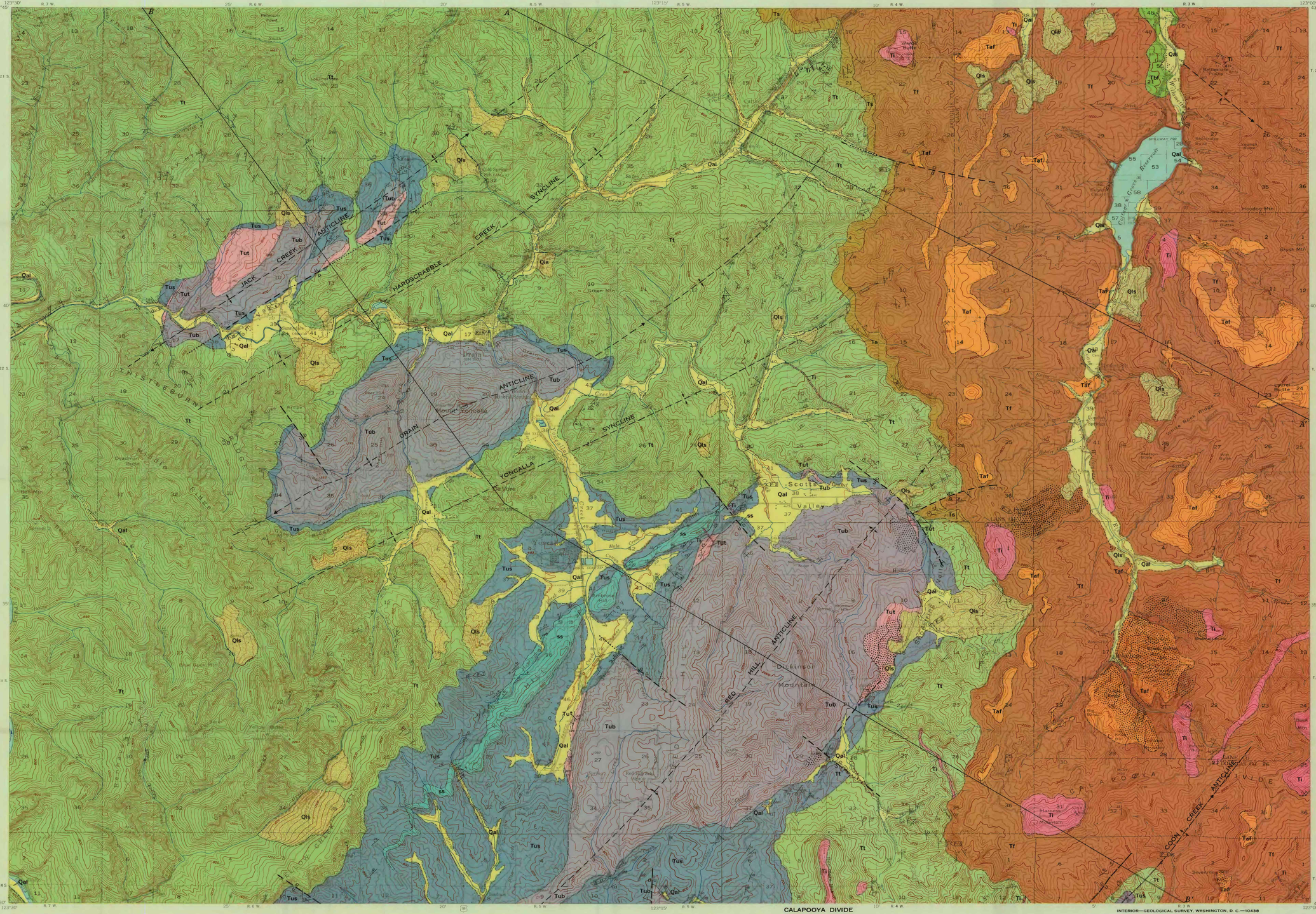


Base from U. S. Geological Survey Anlauf and Drain 15′ topographic quadrangles, 1954

Geology mapped in 1954–57

EXPLANATION

SEDIMENTARY AND VOLCANIC ROCKS

QUATERNARY

Recent

Qal — Alluvium
Silt, sand, and gravel

Pleistocene and Recent

Qls — Landslide debris
Debris of Tertiary rocks

TERTIARY

Miocene(?)

Tbf — Basalt flows
Glassy olivine basalt

Eocene and Oligocene

Taf — Fisher formation
Massive to poorly bedded nonmarine andesitic tuff, tuff-breccia, conglomerate, and tuffaceous sandstone and siltstone
Taf, *flows of hypersthene-augite andesite, patterned in area of altered rock*

Eocene

Ts — Spencer formation
Massive to poorly bedded arkosic micaceous sandstone, interbedded light-colored fissile siltstone, and fine tuff. Locally contains thin beds of impure coal and pebble conglomerate

Tt — Tyee formation
Rythmically bedded arkosic micaceous sandstone and siltstone, containing abundant fragmental plant material

Tus, Tub, Tut, ss — Umpqua formation
Tus, *siltstone member, well-indurated, fissile; interbedded sandstone and tongue of basaltic sandstone,* ss
Tut, *tuff member; water-laid vitric tuff and lapilli crystal tuff*
Tub, *basalt member; flows of amygdaloidal basalt and basaltic flow breccia, locally containing interbedded siltstone and tuff, patterned in area of altered rock*

INTRUSIVE ROCKS

Eocene and Miocene(?)

Ti — Intrusive rocks
Dikes, sills, and stocklike bodies of basalt, diabase, and norite

Contact
Dashed where approximately located

Indefinite contact

Fault
Dashed where approximately located; dotted where concealed; queried where doubtful. U, *upthrown side;* D *downthrown side*

Anticline
Showing trace of axial plane and direction of plunge of axis; long dash where approximately located; short dash where concealed; queried where doubtful

Syncline
Showing trace of axial plane; long dash where approximately located; short dash where concealed; queried where doubtful

Strike and dip of beds

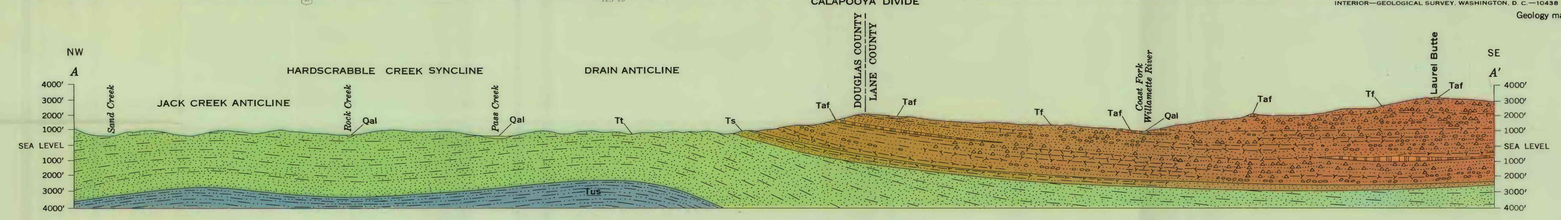
Strike of vertical beds

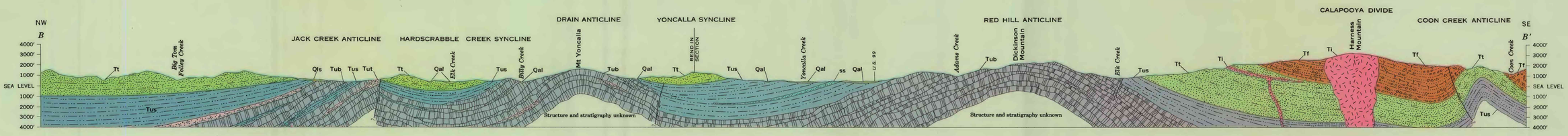
Horizontal beds

Fossil locality at point of dip observation
F, Foraminifera
M, megafossils
P, plant fossils

Mine portal

Quarry





GEOLOGIC MAP AND SECTIONS OF THE ANLAUF AND DRAIN QUADRANGLES, DOUGLAS AND LANE COUNTIES, OREGON

SCALE 1:62 500

1 0 1 2 3 MILES

CONTOUR INTERVAL 80 FEET
DATUM IS MEAN SEA LEVEL