

EXPLANATION

**UNCONSOLIDATED DEPOSITS**

- Quaternary**
  - Qg: Riverbed stream gravel
  - Qs: Sandy deposits
  - Qd: Dune sand
  - Qsu: Silty sand, fine-silted and organic material (muck)
  - Qa: Alluvium
  - Qab: Alluvial flood plain
  - Qlc: Loess and colluvium
  - Qtg: Gravel, sand and silt
- Tertiary**
  - Ts: Sandstone, siltstone, conglomerate and coal
  - Tka: Shale, graywacke and quartzite (in part)
  - Tkc: Conglomerate, graywacke, and shale
  - Tu: Undifferentiated chert, conglomerate, clay shale, and sandstone
  - Tcl: Conglomerate, graywacke, and shale
  - Tst: Tivovana Limestone
  - Tvs: Volcanic and sedimentary rocks
  - Tb: Basalt
  - Tkg: Tertiary granitic rocks
  - Tks: Tertiary syenite

**SEDIMENTARY AND METAMORPHIC ROCKS**

- Upper Middle Devonian**
  - Dcl: Conglomerate, graywacke, and shale
  - Dst: Tivovana Limestone
  - Dcl: Conglomerate, graywacke, and shale
  - Dcl: Tivovana Limestone
- Lower Middle Devonian**
  - Dcl: Conglomerate, graywacke, and shale
  - Dcl: Tivovana Limestone
- Upper Silurian**
  - Dcl: Conglomerate, graywacke, and shale
  - Dcl: Tivovana Limestone
- Lower Silurian**
  - Dcl: Conglomerate, graywacke, and shale
  - Dcl: Tivovana Limestone
- Devonian**
  - Dcl: Conglomerate, graywacke, and shale
  - Dcl: Tivovana Limestone
- Carboniferous**
  - Cal: Argillite, slate, quartzite, siltstone and limestone (a)
  - Egg: Grit, quartzite, slate, and argillite
- Permian**
  - gf: Greenochat Facies
  - gab: Epithe amphibolite facies

**METAMORPHIC ROCKS**

- gf: Greenochat Facies
- gab: Epithe amphibolite facies

**SEQUENCE INCLUDING UNITS IDENTIFIED ONLY SOUTH OF BEAVER CREEK FAULT**

- Dcl: Conglomerate, graywacke, and shale
- Dcl: Tivovana Limestone
- Dcl: Conglomerate, graywacke, and shale
- Dcl: Tivovana Limestone
- Dcl: Conglomerate, graywacke, and shale
- Dcl: Tivovana Limestone
- Dcl: Conglomerate, graywacke, and shale
- Dcl: Tivovana Limestone

**LEGEND FOR UNCONFORMITIES AND FAULTS**

- UNCONFORMITY: Dotted line with dashes
- DISCONFORMITY: Dashed line with dashes
- FAULT: Solid line with dashes
- THRUST FAULT: Solid line with triangles

**SYMBOLS**

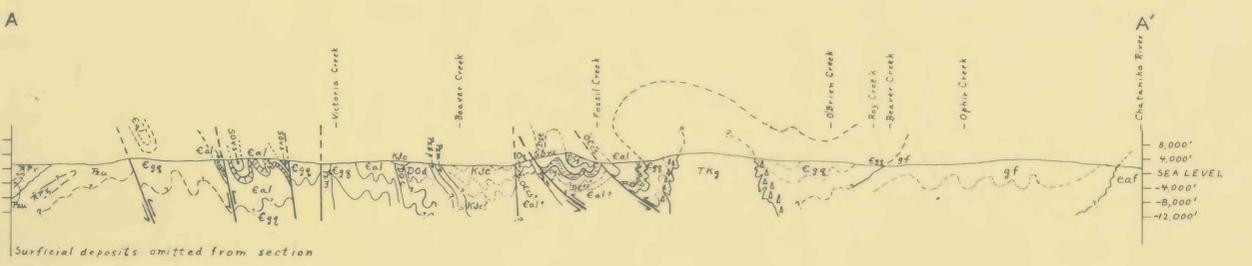
- Bedding: Solid line for strike and dip, dashed for vertical, dotted for horizontal
- Foliation: Solid line for strike and dip, dashed for vertical, dotted for horizontal
- Folds: Solid line for anticline, dashed for syncline
- Other: Pingo, Terrace

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SCALE 1:25000

LIVENGOOD ALASKA



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PRELIMINARY GEOLOGIC MAP OF THE LIVENGOOD QUADRANGLE, ALASKA

by  
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