

LEGEND

Quaternary Deposits

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| <p>Qt Placer Mine Tailings; Sorted gravels with fines removed.</p> | <p>Qal Recent Stream Alluvium; Silt, sand, and gravel deposited in modern streams.</p> | <p>Qaf Alluvial Fan Deposits; Coarse, stratified sand and gravel in both active and inactive fan systems.</p> | <p>Qsl Landslide Deposits; Poorly sorted soil and rock colluvium derived from large scale slope failure.</p> |
| <p>Qu Undifferentiated Quaternary Deposits; Includes terrace gravels, remnant glacial deposits, and eolian and retransported silt.</p> | | | |
| <p>Qb Terrace Alluvium; Poorly stratified sand and gravel of several ages. Generally covered with climax vegetation.</p> | <p>Qd Till Deposits; Unconsolidated glacial till of Wisconsinian age.</p> | | |

Tertiary Sedimentary Rocks

Ts
Nenana Gravel (?);
Poorly exposed consolidated
silt, sand, and gravel.

Intrusive and Related Rock Units

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| <p>Tf Quartz Felsite; Light gray, porphyritic.</p> | <p>Tb Basalt; Dark gray, fine grained, equigranular, forms dikes.</p> | <p>Tm Gabbro to Ultramafics; Fresh to altered dikes and plugs. Occurs in structural zones.</p> | <p>Th Hornfels and Skarn; Green-gray aphanitic epidote, garnet ± magnetite skarn and tremolite hornfels.</p> |
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Keivy Peak Formation

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| <p>Pks Calcareous Schist; Light gray micaceous tan weathered, calc-schist. Gradational to Pkm.</p> | <p>Pkm Marble; Light gray to blue gray schistose, locally abundant interlayers of black Pks.</p> | <p>Pkq Black Quartzite, Phyllite, and Slate; Dark gray to black, fine- grained, locally siliceous and very carbonaceous.</p> | <p>Pkc Conglomerate and Quartzite; Siliceous stretched pebble conglomerate. Contains minor slate and marble.</p> |
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Spruce Creek Sequence

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| <p>Psm Marble; Gray-blue, schistose, locally abundant interbedded Pscq.</p> | <p>Psmq Marble and Quartzite; Interbedded Psm with 50% interlayered fine-grained vitreous quartzite.</p> | <p>Pscq Chloritic Phyllite; Light green to gray, locally quartzofeldspathic. Includes chloritic calc-phyllite (Pscq).</p> | <p>Psa Meta-andesite and Diorite; Light green to gray, foliated with uranitized amphibole blastophenocrysts.</p> |
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Birch Creek Sequence

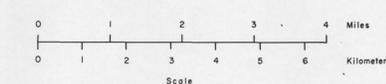
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| <p>pCg Greenstone and Greenschist; Dark green, garnetiferous. Locally includes biotite, muscovite schist.</p> | <p>pCq Quartzite; Tan to purple, fine-grained, massive, locally limonitically stained. Occurs in the Stampede Mine area.</p> | <p>pCsq Undifferentiated Schist, Quartzite and Gneiss; Garnetiferous quartz mica schist, massive to laminated schistose quartzite and feldspathic biotite gneiss.</p> | <p>pCgs Graphitic Schist; Dark gray to black, limonitically stained, locally siliceous or calcareous. Includes minor quartz sericite schist.</p> |
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| <p>pCc Calcareous Schist; Gray, tan weathered calc-muscovite schist with interbedded marble and quartzite.</p> | <p>pCf Quartz-feldspar Schist and Gneiss; Garnetiferous quartz-feldspar schist. Local relict igneous textures.</p> | <p>pCm Marble; Light gray, medium-grained, schistose marble.</p> | <p>Note: Age relationships of units within the Birch Creek Formation are not established.</p> |
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Geologic Symbols

- Fault, dashed where approximately located, dotted where concealed
- ▬▬▬ Thrust fault, sawteeth on upper plate
- - - - - Contact, dashed where approximately located
- ~ ~ ~ ~ ~ Anticline, showing trace and direction of crustal plane
- ~ ~ ~ ~ ~ Syncline, showing trace of trough plane and axial plunge
- |— Strike and dip of foliation

Base map adapted from U.S.G.S. M. McKinley
B-1,2,3, C-1,2,3, D-1,2,3 1:63,360 quadrangles.
Work performed for the U.S. Bureau of
Mines under contract number SO134031
Prime contractor: Salisbury B. Dietz, Inc.
Technical subcontractors: C.C. Hawley and
Associates, Inc. and WGM Inc.



Contour interval 100 feet

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