



# GEOLOGIC MAP OF THE LAMB PEAK QUADRANGLE AND PART OF THE SPYGLASS PEAK QUADRANGLE, KOOTENAI AND SHOSHONE COUNTIES, IDAHO

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## Description of Map Units

- Quaternary**
- Qa1** Alluvium -- Recently deposited clay, silt, sand and gravel in stream valley floors.
  - Tgp** Old Gravel -- Tan to orange silt, sand, pebbles, cobbles and boulders filling Tertiary stream valleys. Composed of materials derived from surrounding Belt metasediments. Cemented by limonitic iron oxides in a few localities.
- Tertiary**
- Cgc** Gold Creek Quartzite -- Medium- to coarse-grained, white to pink quartzite, characterized by abundant, well-rounded white to pink quartz grains.
- Cambrian**
- pc1** Libby Formation -- Lowest 100 to 300 feet of formation is dark gray to black argillite, thinly interlaminated with gray to light gray siltite. Above argillite Libby consists of tan to green and pale maroon argillite and siltite, ribbon-bedded in many places, and characterized by included wisps, fragments and irregular thin layers of black argillite. Some of siltite is carbonate-bearing and contains stromatolites in places. Tan to green chert nodules in a few areas.
- Striped Peak Formation**
- pcsp4** Striped Peak unit 4 -- Brick red to maroon micaceous quartzite and siltite with pale green and maroon argillite, the latter especially for a few hundred feet next to upper and lower contacts. Ribbon-banded in places near upper contact.
  - pcsp3** Striped Peak unit 3 -- Green-weathering dark gray to black argillite, interlaminated with gray to dark gray siltite. Abundant thin gray quartzite beds near upper contact in some areas.
  - pcsp2** Striped Peak unit 2 -- Tan- to white-weathering green dolomitic siltite. Boxwork silica seams weather out in relief, forming distinctive exposures. Thin black argillite beds, typical of unit 3 above, begin repeating sparsely in the dolomitic siltite in some areas in about the middle of unit 2.
  - pcsp1** Striped Peak unit 1 -- Tan to white, green, and red, thin- to thick-bedded micaceous quartzite with thin-bedded green, purple, and red siltite and argillite. A few beds contain abundant carbonate and may display stromatolitic structures. Thickness appears to vary substantially.

- Middle Proterozoic Belt Supergroup**
- Wallace Formation**
- pcw3** Upper Wallace unit 3 -- Dark gray to black argillite laminated with light gray to gray siltite. Contains stromatolitic carbonate masses up to four feet in width and five feet in height in a few places.
  - pcw2** Upper Wallace unit 2 -- Olive green to dark gray and black argillite interlaminated to very thin bedded with light gray to gray siltite/quartzite and tan-weathering silty carbonate.
  - pcw1** Upper Wallace unit 1 -- Dark olive green to dark gray and black argillite interlaminated to very thin-bedded with light gray to gray siltite/quartzite. Little carbonate-bearing siltite.
  - pcwm** Middle Wallace -- Thin- to medium-bedded, gray to light gray and white quartzite, rusty-weathering dolomitic siltite/quartzite and green argillite with black argillite caps over the quartzite-dolomitic-quartzite-green argillite sequences. Black argillite caps display contorted cracks filled with silt and sand from overlying units. Gradational zone into upper Wallace, characterized by alternating 2 to 10 foot sequences of each unit, is very thick in some areas.
  - pcw3** Lower Wallace unit 3 -- Thin- to medium-bedded, light gray to gray quartzite, dolomitic quartzite grading to quartzitic dolomite, and moderate green argillite. Few thin black argillite caps. Quartzite, dolomitic quartzite and quartzitic dolomite are dominant constituents in most areas.
  - pcw2** Lower Wallace unit 2 -- Thin- to medium-bedded, light gray to gray quartzite and rusty-weathering dolomitic quartzite grading to quartzitic dolomite. Abundant and prominent black argillite caps, as in Middle Wallace. Very little green argillite.
  - pcw1** Lower Wallace unit 1 -- Green argillite and carbonate-bearing argillite with thin- to medium-bedded, light gray to gray quartzite and rusty-weathering dolomitic quartzite grading to quartzitic dolomite. Similar to Lower Wallace unit 3, except that argillite much more abundant than quartzite in most areas.

- pcsr** St. Regis Formation -- Thin- to very thin-bedded, green and purple argillite with green siltite and gray to tan and gray green impure quartzite. Quartzite is prominent in the lower one-third of the formation, where it is more abundant than argillite or siltite and in places becomes medium- to thick-bedded. Rusty-weathering dolomitic argillite common in upper one-half to one-third of formation with wisps and very thin beds of argillitic dolomite occurring in the uppermost part of the formation. Top of unit placed at lower contact of prominent dolomitic quartzite/quartzitic dolomite beds in the Wallace. Thin bed of waxy green argillite, peculiar to this interval, occupies top of St. Regis Formation.
- pcr** Revett Formation -- Thin- to thick-bedded, gray to white and some pale green quartzite with thin- to medium-bedded siltite and thin-bedded greenish argillite in places. Quartzite is generally more vitreous, blockier and more resistant to weathering than quartzites of the underlying Burke Formation.
- pcb** Burke Formation -- Thin- to thick-bedded gray and dark gray to pale green, subvitreous siltite and fine grained quartzite with abundant argillite and siltite-argillite, especially in the lower one-third. Contains numerous beds of quartzite, which in a few thin bands resemble vitreous Revett quartzite, in the upper one-third to one half of the formation. The top of the Burke is placed at the base of thick beds of white, vitreous quartzite.

- Contact, approximately located - - - - -
- Contact, concealed - - - - -
- Fault, approximately located - - - - -
- Fault, concealed - - - - -
- Strike and dip of beds:
  - 45° inclined
  - horizontal
  - vertical
  - 45° overturned
- Individual outcrop, roadcut exposure or diagnostic rubble x
- Stromatolite exposure ⊙
- Salt Cast exposure ⊗