



SEDIMENTARY AND VOLCANIC ROCKS AND DEPOSITS

QUATERNARY UNCONSOLIDATED SEDIMENTARY DEPOSITS

- Nonglacial deposits**
- Qa Alluvium
 - Qp Peat deposits
 - Qd Dunes
 - Qs Mass wasting deposits
 - Ql Loess
- Glacial deposits**
- Qfg Outburst flood deposits
 - Qfs gravel sand and silt
 - Qgl Glaciolacustrine deposits
 - Qglf Glaciolacustrine deposits and outburst flood deposits, undivided
 - Qgo Outwash
 - Qgo late Wisconsin outwash
 - Qgo pre-late Wisconsin outwash
 - Qgt Till
 - Qgt late Wisconsin till
 - Qgt pre-late Wisconsin till
 - Qgd Drift
- TERTIARY VOLCANIC AND SEDIMENTARY ROCKS**
- Mc1 Latah Formation
- Columbia River Basalt Group**
- Mwvp Wanapum Basalt
 - Mwvr Priest Rapids Member
 - Mwvr Roza Member
 - Mwvr Frenchman Springs Member
 - Mwvz Grande Ronde Basalt
 - Mwvz magnetotatigraphic unit N₂
 - Mwvz magnetotatigraphic unit R₂
- Sanpoil Volcanics**
- Evs andesite flows and flow breccia
 - Evs tuff and tuff breccia
 - Evs andesite flows, flow breccia, tuff, and sedimentary rocks, undivided
 - Evd dacite flows and flow breccia
- METASEDIMENTARY ROCKS**
- LOWER PALEOZOIC TO PRECAMBRIAN META-SEDIMENTARY ROCKS**
- Ommc Covada Group
 - Omcbl Metaine Formation
 - Omcbl dolomite
 - Omcbl limestone
 - Omcbl undivided
 - CZqa Addy Quartzite
 - CYqc Quartzite of Creston Butte
- Metasedimentary rocks of the Cayuse Mountain-Mill Canyon area**
- OYch metacarbonate
 - OYph phyllite
 - OYmm metacarbonate and phyllite, undivided
 - OYmm hornfels unit
 - OYq quartzite unit
- Deer Trail Group**
- Ycb Stensgar Dolomite
 - Yam McHale Slate
 - Ycb Edna Dolomite
 - Yq Togo Formation
 - Yar quartzite
 - Yar argillite

INTRUSIVE ROCKS

- TERTIARY HYPABYSSAL ROCKS**
- Eida Dacite dikes and plugs
- TERTIARY PLUTONIC ROCKS**
- Eii Herron Creek suite
 - Eii Monzonitic rock
 - Eimdl Devils Elbow suite
 - Eimdl Friedlander Meadows pluton
 - Eimdl Monzodiorite
 - Eimdl Keller Butte suite
 - ENlgn Keller Butte pluton
 - ENlgn quartz porphyry of Mount Tolman
 - ENlgn porphyritic granite of Keller Butte
 - ENlgn biotite granite of Swawilla Basin
 - ENlgn two-mica granite of Swawilla Basin
 - ENlgn porphyritic granodiorite of Manila Creek
 - ENlgn Plutonic complex of Johnny George
 - ENlgn Granite of George Creek
- TERTIARY TO CRETACEOUS PLUTONIC ROCKS**
- TKid Diorite of Johnny George
 - TKid Biotite granite near Creston
- CRETACEOUS HYPABYSSAL ROCKS**
- Kir Porphyritic rhyolite dikes and bodies
 - Kl Lamprophyre dikes and bodies
- CRETACEOUS PLUTONIC ROCKS**
- Klgn Granite near the Germania mine
 - Klgn porphyritic granite
 - Klgn equigranular granite
 - Klgn Granite of Owl Creek
 - Klgn Alaskite bodies and dikes
 - Klgn Granite of Piney Butte
 - Klgn Granite of Lilienthal Mountain
 - Klgn Granite of Blue Creek
 - Klgn Midstone mine pluton
 - Klgn Granite porphyry
 - Klgn Granodiorite of Benjamin Lake
 - Klgn Granodiorite of Hawk Creek
 - Klgn Altered granitoid rocks of Mire Rock
- PRECAMBRIAN INTRUSIVE ROCKS**
- Zib Basic intrusive dikes and sills
- MIXED IGNEOUS AND METAMORPHIC ROCKS**
- Elmg Migmatite of Johnny George
- METAMORPHIC ROCKS**
- TKbg Gneiss near Elmer City
- TECTONIC ROCKS**
- Tbx Tectonic breccia west of Fort Spokane

EXPLANATION

- Contact
- Contact - gradational
- Fault - dashed where location uncertain; dotted where concealed; arrow indicates directions of dip of fault planes; queried where uncertain
- Anticline - dotted where concealed
- Syncline - dotted where concealed
- Overturned anticline - dashed where axis approximately located
- Monocline - dotted where concealed
- Strike and dip of inclined beds
- Strike and dip of overturned beds
- Strike of vertical beds
- 36 Strike and dip of foliation
- Strike of vertical foliation
- Horizontal foliation
- Bearing and inclination of lineation
- Bearing of horizontal lineation
- Bearing of lineation in plane of foliation
- 14 Age determination sample locality
- Ecene Eocene dacite dike swarm; ratio of dikes to country rock generally exceeds 1:10
- Undeformed rocks of the Eocene or Paleocene plutonic complex of Johnny George

GEOLOGIC MAP OF THE COULEE DAM 1:100,000 QUADRANGLE, WASHINGTON

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THIS REPORT CONSISTS OF 1 MAP AND A 40 PAGE TEXT