



EXPLANATION

--- Contact, solid where known, dashed where inferred.
 - - - - - Fault, solid where known, dashed where inferred.
 Q Abundant quartz stringers.
 R Extensive iron staining.
 45x Strike and dip of bed.

B Brecciation.
 Cu Mineral Locality:
 Fe - Iron Zn - Zinc
 Cu - Copper Ba - Barium
 Pb - Lead Gyp - Gypsum
 Mn - Manganese

Varicolored chert, frequently iron stained, contains minor quartzite and sandstone. Frequently interbedded with andesite and basalt (Rampart Group?).
 Maroon, gray and green argillites, shales and phyllites with local quartzites. Frequently very fissile, sheared and extensively eroded.

Dolomite, calcarenite and minor tuffaceous limestone, gray to green, weathers rusty.
 Undifferentiated dark to gray fine grain Cambrian limestone and the light colored massive Tolovana limestone (Silurian to Middle Devonian) (FM). Generally all limestone east of 147°30' longitude appears to belong to the Tolovana sequence except a locality (cont.).
 Black to occasionally gray shale, frequently silicified and rarely calcareous. Near the Victoria Mountain intrusive they are altered to hornfels and also some sandstone strata. It is not known if the shale at Victoria Mtn. stratigraphically correlates to the shale west of Mt. Schwatka.

on upper Big Creek. Tolovana limestone is typically fractured w/calcite and quartz veins, forms spectacular outcrops.
 Quartzite with minor slate, argillite, grit and chert. Generally very dense and blocky. Apparently Cambrian in age based on fossil localities.
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Victoria Mtn. monzonite, quartz monzonite, locally porphyritic. Includes rhyolite porphyry, pegmatite and opelite dikes. Biotite enrichment locally near margins and extensive hornfels development on periphery.
 1) West of Lost Cr. mafic basalt flows, andesite tuff and diabase with bedded sedimentary rock, local breccia, some intrusive gabbro and diorite, may be part of the Rampart Group (Permian?). Limited outcrop and airmagnetics indicate these rocks are extensive north of the project area. (cont.)

EXTRUSIVE / INTRUSIVE ROCKS

2) East of Lost Cr. basalts, tuffaceous limestones frequently extensively chloritized and schistose, agglomerate and breccia. Gypsum occasionally present. Some greenstone and diorite dikes. Outcrops of dense, iron rich tuff northeast of Mt. Schwatka. Includes intervals of chert, shale and argillite. Appears equivalent to the Fossil Cr. Volcanics.
 Tuffs and tuffaceous sandy limestones. Volcanic fragments in cherty quartz matrix. May be more extensive than shown north-west of Mt. Schwatka. Volcanic material of intermediate to felsic composition.

PLATE I - Field Observation of Mineral Occurrences and Rock Types