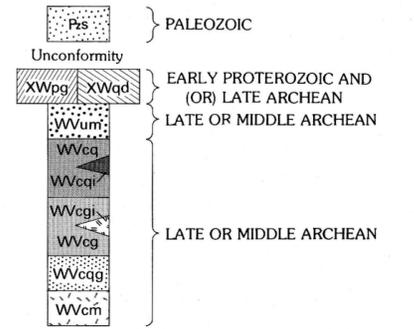


**CORRELATION OF MAP UNITS**

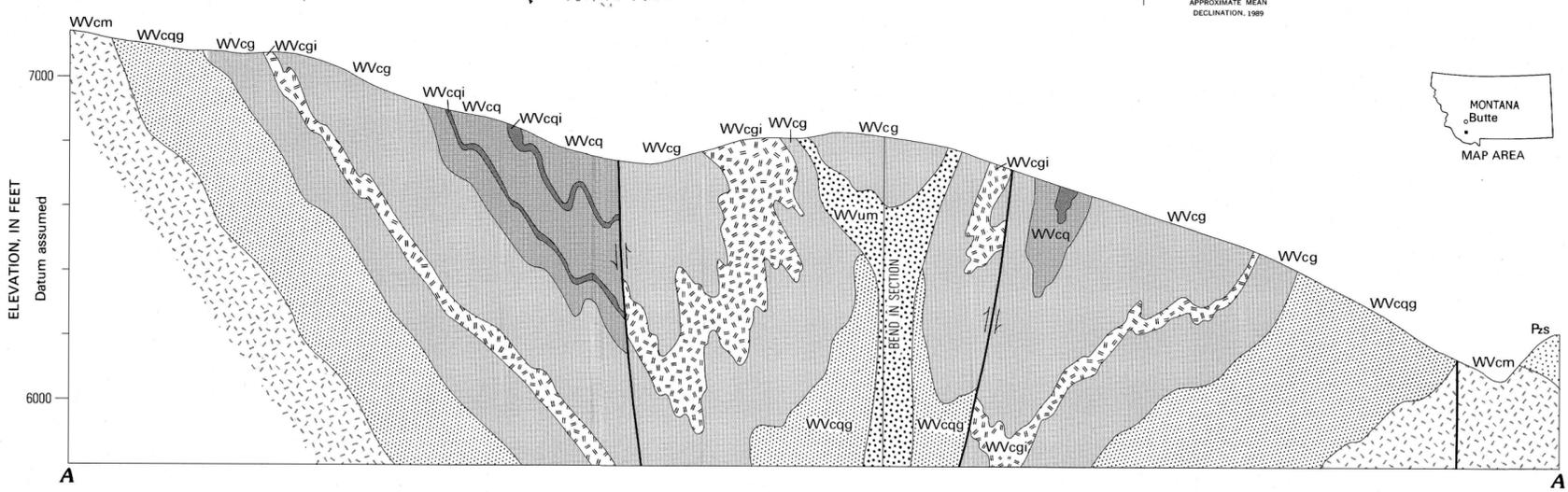
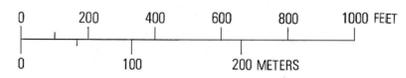


**DESCRIPTION OF MAP UNITS**

(Modified from James and Wier, 1972a)

- Paleozoic strata**—Cambrian Flathead Quartzite and Wolsey Shale at north margin; limestone of Mississippian Madison Group at west margin
- Pegmatite (Early Proterozoic(?) and (or) Late Archean)**—Pink to white, coarse grained; mostly microcline and quartz. Some small bodies not shown
- Quartz diorite (Early Proterozoic(?) and (or) Late Archean)**—Fine to medium grained, weakly to moderately foliated
- Ultramafic rock (Late or Middle Archean)**—Heavy, compact; dark on fresh break, weathers yellowish brown. Some small bodies not shown
- Christensen Ranch Metamorphic Suite (Late or Middle Archean)**
- Quartzite**—Micaceous quartzite, biotite-garnet quartzite, vitreous quartzite
- Banded iron-formation**—Two or more beds
- Gneiss**—Dark-gray, layered diopside-hornblende-garnet-plagioclase gneiss, containing thin beds of quartzite
- Main iron-formation of area**
- Quartzite and gneiss**—Upper part garnet-rich; lower part poorly exposed, mainly micaceous quartzite
- Dolomitic marble**—Medium- to coarse-grained. Upper part contains phlogopite and serpentinized forsterite

Center sec. 25



**GEOLOGIC MAP OF THE KELLY IRON DEPOSIT, MADISON COUNTY, MONTANA**  
Secs. 23, 24, 25, and 26, T. 6 S., R. 5 W.

- Contact**
- Fault**—Dashed where approximately located or inferred. Relative motion shown by arrows if dominantly horizontal, by letter symbol if dominantly vertical (U, upthrown; D, down-thrown)
- Strike and dip of layering in metasedimentary rocks and bedding in younger strata**—Overtuned bedding not separately distinguished
- Inclined**
- Vertical**
- Bearing and plunge of linear feature, such as minor fold axis, mineral orientation, or rodding**