

Deadwood Formation—Brown to light-gray glauconitic sandstone, shale, limestone, and local basal conglomerate. Thickness ranges from 0 to 500 feet (modified from DeWitt and others, 1989). A major aquifer in the study area

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Harney Peak Granite—Pink and tan coarse-grained and pegmatitic muscovite granite. Characterized geochemically from other granites in the area by high concentrations of boron, beryllium, lithium, and uranium (DeWitt and others, 1989)



XWui

Undifferentiated metamorphosed phyllite and schist—Locally carbonaceous and tuffaceous. Geochemical and geophysical signatures vary with the tuffaceous zones having an anomalously high copper concentration and a magnetic nature (DeWitt and others, 1989)

Precambrian igneous and metamorphic units

Deadwood

aquifer

- XWgw
- **Undifferentiated igneous rocks**—Geochemical signature and geophysical nature vary depending on protolith (see DeWitt and others, 1989 for additional information)
- Metamorphosed graywacke—Primarily a medium- to dark-gray siliceous mica schist and impure quartzite (DeWitt and others, 1989)



Undifferentiated metamorphosed sedimentary deposits—Includes conglomerate, quartz sandstone, siltstone, and dolomite protoliths. Parts are characterized geochemically by anomalously high uranium, chromium, and gold concentrations and other parts by anomalous gold, silver, and arsenic concentration. The latter zones are magnetic in nature (DeWitt and others, 1989)

NOTE: Some thickness ranges given above are from the sources listed and from data on file at the U.S. Geological Survey, Rapid City, South Dakota