

# What is Geologic Mapping?



*Geologists record bedrock types, the angles of tilted layers, and details of folded and faulted rocks.*

## What is a geologic map?

A geologic map uses colors and symbols to show the different types of rock and sediment on the surface of the Earth, as well as natural features such as geologic contacts, faults, and folds. Depending on its purpose, a geologic map might also depict features such as landslides, active volcanoes, and gravel deposits.

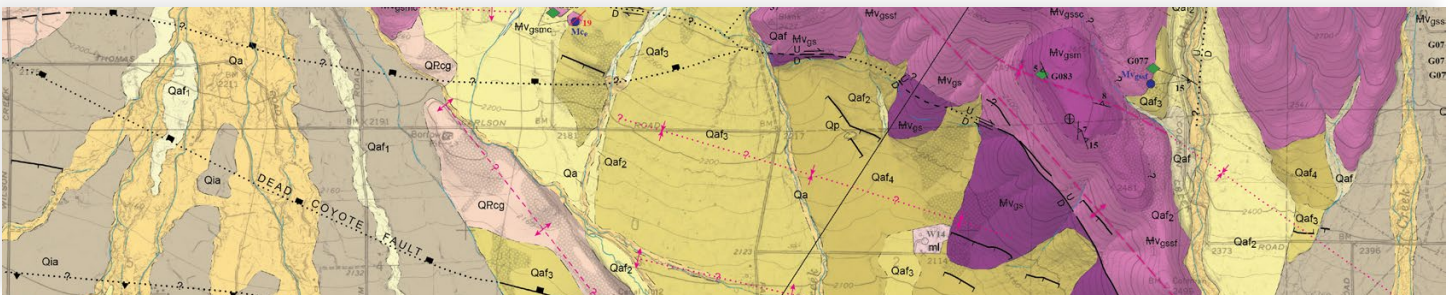
## How is a geologic map made?

To create a geologic map, geologists investigate bedrock, sediment, and landforms in a study area. Their aim is to identify and describe these features, and to depict them as geologic units. They explore the landscape to find outcrops where rocks, sediment, and geologic structures are exposed. These observations form the basis for a history of the landscape and ongoing change.

## Who uses geologic maps and how do they benefit your community?

Geologic maps are used by the general public, consultants, planners, and emergency managers. These maps inform decisions related to the safety of people, property, and infrastructure. For example, geologic maps guide how to build roads around landslide hazards, where to construct buildings, and where to find resources from sand and gravel to precious metals. In addition to practical benefits, geologic mapping helps scientists better understand our planet.

***Geologic maps help people understand the physical world and its history, develop economic resources, identify and plan for natural hazards, and make land-use decisions.***



*Geologic maps use colors and symbols to depict rock types, faults, and sediment deposits. This image is a portion of the Colockum Pass SW and southern half of the Naneum Canyon 7.5-minute quadrangles, Kittitas County, Washington.*



