Geologic map of the Surveyors Ridge area, Clearwater and Shoshone Counties, Idaho

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Introduction

The geologic map of the Surveyors Ridge area is a critical resource for understanding the geology of the Clearwater complex, which is part of the Belt Supergroup in northern Idaho. The map area includes Surveyors Ridge, Ridge Lookout, Martin Peak, and Collins Peak, where the geologic units are well exposed and provide important constraints on the tectonic evolution of the region.

Description of Map Units

Metasedimentary Rocks

Granite (Tertiary to Cretaceous) -

Intrusive Rocks

Wallace quartzite (Mesoproterozoic) -

Metasedimentary Rocks

Amphibolite (Neoproterozoic to Mesoproterozoic) -

Amphibolite (Cretaceous) -

Amphibolite (Paleoproterozoic) -

Acknowledgments

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References

Doughty, P.T. & Chamberlain, K.R., 2007, Age of Paleoproterozoic basement and related rocks in the Collins Creek fault, dashed where approximately located. Teeth on upper

206Pb/207Pb crystallization age of 1870 ± 9 Ma.

A small amphibolite body intrudes the larger granodiorite pluton southwest of Mallard Peak. The age of this body is

206Pb/207Pb Weighted Mean age:

Intrusive Rocks

Wallace quartzite (Mesoproterozoic) -

Amphibolite (Neoproterozoic to Mesoproterozoic) -

Amphibolite (Cretaceous) -

Amphibolite (Paleoproterozoic) -

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