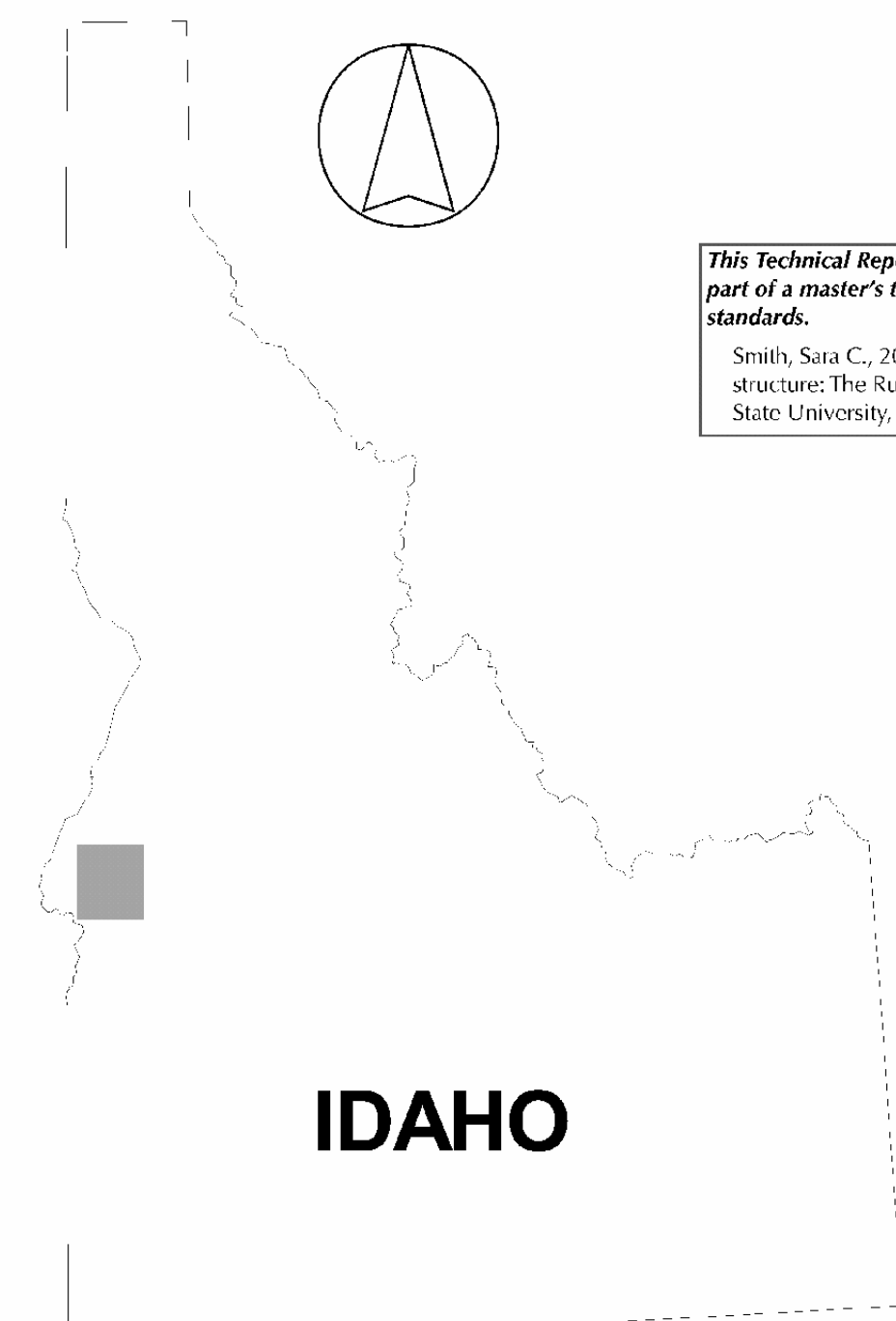


Geologic Map of Advent Gulch & Rush Peak 7.5' (1:24,000) Quadrangles, Idaho

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This Technical Report is a reproduction of a map originally submitted as part of a master's thesis. Its content and format may not conform to IGCS standards.
Smith, Sara C., 2001. Quaternary movement on an intruded Mesozoic structure: The Rush Peak Fault, west-central Idaho, M.S. thesis, Boise State University, 149 p.

QUADRANGLE LOCATION

2000 0 2000 4000 6000 8000 10000 12000 14000 16000 Feet

1000 0 1000 2000 3000 4000 Meters

Scale
1 : 24,000

Strike and dip of foliation
Strike and dip of strata

Contacts

Mapped Inferred

Faults

Normal Fault Inferred Concealed Queried u ~ up d ~ down

References

Map compiled from the following:

- [1] Fitzgerald, J.F., 1981, Geology and basalt stratigraphy of the Weiser embayment, west-central Idaho: Moscow, University of Idaho, Ph.D. thesis.
- [2] King, J. R., 1971, The geology of the southeastern Cuddy Mountain District, western Idaho, Oregon State University, M.S. Thesis.
- [3] Slater, M. N., 1969, Geology and mineral deposits of the western Cuddy Mountain district, western Idaho, Oregon State Univ. M.S. thesis.

DESCRIPTION OF MAP UNITS

Quaternary Surficial Deposits

Qal	Holocene- Crudely stratified silt, sand, and gravel deposited by present streams as channel or flood plain materials.
Alluvium	
Qcl	Holocene- Locally derived, incoherent accumulations of angular and and poorly sorted rock debris.
Colluvium	
Qls	Holocene and Pleistocene- Locally derived, incoherent masses of angular and poorly sorted material which generally include large bedrock blocks. Typically exhibit chaotic structures and hummocky topography. Usually associated with Imnaha basalt.
Landslide	
Qfcl	Holocene and Pleistocene- Locally derived silts, sands, angular and poorly sorted rock debris; locally includes swamp and bog deposits.
Fault Colluvium	
Qaf	Holocene and Pleistocene- Alluvial fan deposits; locally derived, crudely sorted rock debris.
Alluvial Fan	
Qas	Holocene and Pleistocene- Crudely stratified and poorly sorted boulders, gravel, sand and silt terraces standing as much as 50 m above current stream level. Boulders are typically gabbros and granites.
Alluvial Surface	

Tertiary Igneous Rocks [1,2]

Tgr	Composite sequence of basalt flows consisting of scattered plagioclase-phyric flows in the lower portion to sparsely-plagioclase phyric flows in the central portion, and medium-grained aphyric flows at the top of the section.
Grande Ronde Basalt (undivided)	
Tim	Composite sequence which changes up section from an abundantly plagioclase/olivine phyric basal portion, to a nearly aphyric central portion, to a glomeroporphyritic upper portion with 0.5 to 2 cm phenocrysts of plagioclase and olivine.
Imnaha Basalt (undivided)	
Tcm	Two textural varieties of basalt: (1) A sparsely phyric unit containing scattered small plagioclase, pyroxene, and olivine phenocrysts in a fine-grained, glassy groundmass and (2) An abundantly phyric, pyroxene/plagioclase unit that contains pyroxene phenocrysts up to 2 cm in length in a black glassy groundmass.
Cuddy Mountain Basalt	
tf	Pyroclastic, eutaxitic welded ash-flow tuff containing bomb-sized lithics of granitic rock and basalt. Stratigraphic position is between Mesozoic intrusive rock and Tcm (Cuddy Mountain Basalt).
Tuff	
pr	Phenocrysts of plagioclase feldspar and quartz in aphanitic felsic groundmass.
Porphyritic Rhyolite	

Late Mesozoic-Cenozoic Dike [2]

Jurassic Igneous Rocks (Age relationships uncertain with this group) [2,3]

Jpg	Phenocrysts of quartz, hornblende, and biotite in fine grained groundmass of quartz, plagioclase, and orthoclase.
Porphyritic Granodiorite	
Japg	Granodiorite altered to mineralogical and chemical composition of albite granite.
Albite Porphyritic Granodiorite	
Jqd	Hypidiomorphic granular intrusive containing quartz, plagioclase, hornblende, and biotite with minor orthoclase.
Quartz Diorite	
Jgb	Hypidiomorphic granular intrusive containing plagioclase, pyroxene, and amphibole.
Gabbro	
Jcr	Porphyritic rhyolite with phenocrysts of orthoclase and plagioclase set in an aphanitic groundmass.
Camp Creek Rhyolite	

Mesozoic Sedimentary Rocks (inferred to be Jurassic) [3]

Jsh	Gray to black thin-bedded slates and shales.
Shale	
Jss	Light brown, fine-grained, thin-bedded sandstone.
Sandstone	
Jgc	Gray to green conglomeratic shist composed of clasts of shale, limestone and sandstone.
Green Conglomerate	
Jmc	Metamorphosed volcanic conglomerate consisting of a variety of igneous clasts.
Meta-Conglomerate	
Jmv	Undivided meta-andesites, volcanoclastic rocks, cherts, and limestone lenses.
Meta-Volcanics	
Jgcc	Pebble to cobble conglomerate consisting of red, purple, and green clasts of dominantly extrusive rocks.
Grade Creek Conglomerate	