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|------|---|
| Trs | Rhyodacite of upper Second Creek |
| Tbj | Olivine basalt of ridge southwest of Juliette Basin |
| Trc | Rhyodacite of Cash Creek |
| Trf | Rhyodacitic breccia and lava of Fannys Hole |
| Trbc | Rhyodacitic lava of Bayhorse Creek |
| | EOCENE INTRUSIVE ROCKS RELATED TO CHALLIS VOLCANICS IN WESTERN AREA |
| | Intrusions east of Summit Rock |
| Tir | Rhyolite |
| Tid | Rhyodacitic(?) breccia plug |
| Tib | K-rich basalt dikes and plugs |
| Tit | Plugs on upper Trealer Creek |
| Tia | Plug between Coal and Cabin Creeks |
| Tri | Altered dike-like mass on ridge north of Cinnabar Creek |
| Tibr | Intrusive breccia north of Buster Lake |
| | EOCENE CHALLIS VOLCANICS IN EASTERN AREA |
| Tyr | Rhyolitic ash-flow tuff |
| Trd | Rhyodacite lavas and breccias |
| Tb | K-rich olivine basalt |
| Tar | Rhyolitic ash-flow tuff of John Gulch |
| Tt | Bedded silicic tuff |
| Trf? | Rhyodacite breccia and lava |
| Tm | Mudflow breccia and conglomerate near Daugherty Gulch |
| | EOCENE INTRUSIVE BASALTIC ROCKS RELATED TO CHALLIS VOLCANICS IN EASTERN AREA |
| Tib | Basalt |
| | MESOZOIC INTRUSIVE ROCKS |
| Kgd | Granodiorite and quartz monzonite of Juliette Creek (Cretaceous) |
| gb | Gabbro (Cretaceous or Jurassic) |
| | PALEOZOIC ROCKS |
| Mab | Copper Basin Formation (Mississippian) |
| Osm | Saturday Mountain Formation (Upper to upper Middle Ordovician) |
| Ok | Kinnikinnick Quartzite (Middle Ordovician) |
| Oe | Ella Dolomite (Middle Ordovician) |
| Oem | Clayton Mine Quartzite (Lower Ordovician or older) |
| Oemu | Clayton Mine(?) Quartzite |
| Om | Interbedded siltstone and quartzite (Ordovician) |
| Oms | Interbedded siltstone, quartzite, and dolomite of upper Sawmill Creek and Poverty Flat (Ordovician) |
| Orr | Siltstone, sandy siltstone, and quartzite of Rob Roy mine area (Ordovician?) |
| Or | Ramshorn Slate (Ordovician?) |
| Ore | Conglomerate |
| Obh | Bayhorse Dolomite (Lower Ordovician?) |
| OGe | Garden Creek Phyllite (Cambrian?) |
| Ocd | Lower dolomite of Bayhorse Creek (Ordovician or Cambrian) |
| Ocq | Quartzite-siltite lithologies of upper Cash Creek (Ordovician or Cambrian) |
| Ec | Upper carbonate (Cambrian?) |
| Ees | Shale (Middle Cambrian) |
| Ecq | Cash Creek Quartzite (Middle or Lower Cambrian) |
| Eec | Lower carbonate (Cambrian?) |
| Ebc | Quartzite of Boundary Creek area (Cambrian?) |

- LIST OF MAP UNITS**
See pamphlet for descriptions
- QUATERNARY DEPOSITS**
- Qs Slumped block (Holocene) of Clayton Mine Quartzite (Oem)
 - Q1 Young landslide deposits (Holocene)
 - Qm Mudflow deposits (Holocene)
 - Qal Alluvium (Holocene and Pleistocene)
 - Qle Older landslide deposits (Holocene and Pleistocene)
 - Qe Colluvium (Holocene and Pleistocene)
 - Qsu Surficial deposits undivided (Holocene and Pleistocene)
 - Qse Solifluction deposits (Pleistocene)
 - Qd Diamicton (Pleistocene)
 - Qg Older gravels (Pleistocene?)
 - Tv EOCENE CHALLIS VOLCANICS UNDIVIDED
 - EOCENE CHALLIS VOLCANICS IN WESTERN AREA
 - Try Rhyolite flows at Mill Creek Summit
 - Tryb Vitrophyre breccia
 - Tryq Flow containing conspicuous quartz phenocrysts
 - Tt Bedded silicic tuff
 - Tmr Mudflow breccia, conglomerate, and lava of Rough Creek
 - Trx Rhyodacitic lava and breccia of small lava dome(?) east of Tollgate ruins
 - Trt Rhyodacitic lava and breccia north of Trail Creek
 - Trbr Rhyodacite of Buffalo Ridge
 - Tbt K-rich olivine basalt of upper Trealer Creek
 - Trab Rhyodacite of Spring Basin
 - Trac Rhyodacite of Second Creek-Cabin Creek divide

- Contact--Dashed where inferred
- N- Contact of magnetic reversal
N, normal magnetism; R, reversed magnetism
- ?- Fault--Dashed where approximately located; dotted where concealed; queried where postulated. Bar and ball on downthrown side
- ▲-▲- Thrust fault--Dashed where approximately located; dotted where concealed; queried where postulated. Sawtooth on upper plate
- - - - - Folds--Showing trace of axial plane. Dotted where projected under surficial deposits
- ↑ Anticline
- ∩ Overturned anticline
- ∪ Syncline
- ∩ Overturned syncline
- Strike and dip of beds
- 25° Inclined
- ∩ Overturned
- ∩ Vertical
- ⊗ Horizontal

GEOLOGIC MAP OF THE CLAYTON QUADRANGLE, CUSTER COUNTY, IDAHO
By
S.W. Hobbs, W.H. Hays, and D.H. McIntyre
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U.S. Geological Survey
OPEN FILE REPORT
This map is preliminary and has not been edited or reviewed for conformity with Geological Survey standards or nomenclature.