

PERIOD	UNIT	DESCRIPTION
CENOZOIC	QUATERNARY	Qhm: Undifferentiated Quaternary sediments (Q).
		Qha: Mine tailings and man-disturbed ground (Qhm).
		Q: Stream alluvium and swamp deposits (Qha).
		Qchc: Colluvium-clayey gravel derived from dolerite (Qhd); sand derived from Upper Parmeneer rocks (Qhpc).
PLEISTOCENE	Qpdl: Older alluvium of river terraces, predominantly dolerite-derived (Qpdl).	
	Qpl: Talus (Qpl) - dominantly dolerite boulders (Qpdl); of dolerite and subordinate Upper Parmeneer rocks (Qpdl); dominantly of Upper Parmeneer quartz sandstone (Qpql); dominantly of Lower Parmeneer rocks (Qppl); of granitic rock (Qpgr).	
	Qpql: Low-angle unconformity.	
	Qpgr: Low-angle unconformity.	
MESOZOIC	TRIASSIC	R: Undifferentiated Upper Parmeneer Supergroup rocks (R). Dominantly lithic sandstone with minor mudstone and coal (Rvcl); with minor pebbly layers and conglomerate composed of extra basinal clasts (Rvcl); dominantly mudstone (Rvml).
		Rvcl: Quartz-rich lithic sandstone and minor quartz sandstone (Rvcl).
		Rvml: Dominantly freshwater quartz sandstone (Rvml); may contain minor siltstone and mudstone (Rvml).
		Rvcl: Fine-grained slightly feldspathic quartz sandstone, micaceous shale and minor carbonaceous mudstone (correlate of Jackey Formation) (Pq).
		Rvml: Undifferentiated Permo-Carboniferous sediments (P). Poorly-sorted gray mudstone, siltstone and rare sandstone, unfossiliferous except for rare foraminifera (Prospect Creek Mudstone) (Pug). Bed of pebbly sandstone about 1m thick indicated (correlate of Palmer Sandstone) (Pug).
	PERMIAN	Pue: Thick-bedded, usually poorly sorted, pebbly sandstone passing up into interbedded sandstone, siltstone and mudstone; marine fossils locally abundant (Mudstone Sandstone) (Pug).
		Pug: Dominantly bioclastic limestone (Burnt Gully Limestone) (Pue).
		Pue: Marine fossiliferous mudstone, siltstone and minor sandstone and bioclastic limestone (Pue).
		Pue: Fine-grained pebbly sandstone with phosphatic nodules; marine fossils present in some areas. Unit about 2m thick (Fortfall Sandstone Member) (Pud).
		Pud: Mudstone, siltstone and minor poorly sorted sandstone, with uncommon marine fossils (Pudm).
PALEOZOIC	PERMIAN	Pis: Dominantly fine-grained, well-sorted quartz sandstone, commonly with interbedded and interlamated carbonaceous shale, subordinate conglomerate and rare coal (Pis); dominantly very coarse-grained arkosic sandstone and granitic conglomerate (Pisc).
		Pisc: (Pis, Pisc - Aberley Formation).

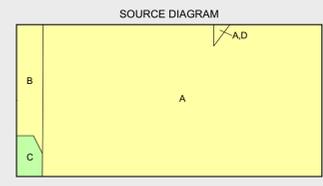
PERIOD	UNIT	DESCRIPTION
PALEOZOIC	DEVONIAN	Dgafw: Fine- to medium-grained, equigranular alkali feldspar granite (Dgafw).
		Dgafwc: Medium- to coarse-grained, equigranular to sparsely porphyritic alkali feldspar granite, with variably abundant K-feldspar phenocrysts (Dgafwc).
DEVONIAN	LATE DEVONIAN	Dgafg: Fine- to medium-grained, variably porphyritic alkali feldspar granite, with quartz and K-feldspar phenocrysts (Dgafg).
		Dgafw: Medium- to coarse-grained, equigranular to sparsely porphyritic alkali feldspar granite, with variably abundant K-feldspar phenocrysts and surficial pink weathering (Dgafw).
		Dgafa: Medium- to coarse-grained, equigranular to sparsely porphyritic alkali feldspar granite, with variably abundant K-feldspar phenocrysts and surficial pink weathering (Dgafa).

CONTACTS	FAULTS	LINEARS
Geological contact	Fault - inferred	Lineament - visible on aerial photographs
Geological contact - inferred	Normal fault (downthrown side indicated)	
Transitional geological contact	Normal fault (downthrown side indicated) - inferred	
Metamorphic contact	Normal fault (downthrown side indicated) - concealed	
Limit of mapping of sub-unit within undifferentiated rock unit		
Limit of detailed mapping		

### IGNEOUS ROCKS

### BEN LOMOND BATHOLITH

- Strike and dip of bedding, right way up.
- Horizontal bedding.
- Strike end dip of dominant joint set.
- Strike of dominant joint set, vertical.
- Strike and dip of foliation due to alignment of K-feldspar phenocrysts in granitic rock.
- Trend of preferred orientation of K-feldspar phenocrysts in granitic rock.
- Trend and plunge of columnar jointing.
- Notable small outcrop with rock unit indicated.
- Notable small float or lag occurrence with rock unit indicated.
- Mineral deposit location - hardrock.
- Mineral deposit location - alluvial/tailings.
- Construction material/industrial mineral/gemstone location.



- Highly detailed (eg. more detailed than 1:25 000 scale mapping).
- Detailed systematic (eg. 1:25 000 map or equivalent detail).
- Regional systematic (eg. 1:50 000, 1:63 360 map or equivalent (all other scales)).
- Regional mapping less detailed than 1:63 360 map or equivalent (all other scales).
- Reconnaissance mapping with sparse ground traverses.
- Remote sensing and/or geophysical interpretation with limited or no ground information.

Compiled by J.L. Everard B.Sc.(Hons), 2008 from the following sources (see source diagram):  
 A CALVER, C.R., EVERARD, J.L., FINDLAY, R.H. & LENNOX, P.G. 1988. Geological Atlas 1:50 000 Series, Sheet 48 (8414N), Ben Lomond. Tasmanian Department of Mines.  
 B BLAKE, F. 1959. Geological Atlas 1:63 360 Series, Sheet 78 (8412N), Longford. Tasmanian Department of Mines.  
 C MATTHEWS, W.L. 1974. Longford Basin Geology (1:100 000 map). Tasmanian Department of Mines.  
 D J.L. Everard fieldwork 1988.

### REFERENCE THIS MAP AS:

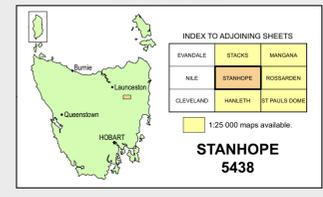
EVERARD, J.L. (compiler) 2007. Digital Geological Atlas 1:25 000 Series, Sheet 5438 Stanhope, Mineral Resources Tasmania.

Base data from the LIST, Copyright State of Tasmania.  
 Map produced by Spatial Information Services, Mineral Resources Tasmania.  
 Website: www.mrt.tas.gov.au  
 GDA94 - MGA Zone 55. Contour Interval: 20 metres.



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### LOCATION DIAGRAM



1:25 000 maps available.  
**STANHOPE 5438**