

# MAP 6. GEOLOGICAL COMPILATION MAP OF THE MOUNT READ VOLCANICS & ASSOCIATED ROCKS HELLYER TO SOUTH DARWIN PEAK

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SCALE 1 : 100 000



QUATERNARY	Q	Glacial deposits, alluvium, etc.		
TERTIARY	Tb	Basalt.		
	Ts	Sediments — gravel, sand, clays.		
JURASSIC	Jf	Dolerite.		
PERMIAN — CARBONIFEROUS	P	Undifferentiated.		
DEVONIAN	Dd	Dolerite.		
	Dg	Granite.		
DEVONIAN — SILURIAN	Ds	Bell Shale		
	S-D	Florence Sandstone		
	S	Silurian		
ORDOVICIAN	Og	GORDON GROUP limestone.		
EARLY ORDOVICIAN — LATE CAMBRIAN	Ec	Upper sandstone sequence including Pioneer Beds (EOu). Undifferentiated conglomerate and sandstone (EOs).		
	EOm	Newton Creek Sandstone (EOm) — interbedded sandstone siltstone and conglomerate with marine fossils.		
				ELDON GROUP
				OWEN CONGLOMERATE
			DENISON GROUP	

### NORTH AND WEST OF HENTY FAULT DUNDAS GROUP AND CORRELATES

Qz	Quartz-feldspar porphyry, mostly intrusive.
S	Mainly sedimentary rocks — greywacke, siltstone, conglomerate.
T	Interbedded tufts and sedimentary rocks.
Qz	Quartzwacke-siltstone units, e.g. Stitt Quartzite.
T	Mainly felsic volcanics — mainly tufts.
T	Mixed felsic and mafic volcanics and epiclastic breccias, Que-Hellyer area.
T	Basaltic to andesitic volcanics.

### SOUTH AND EAST OF HENTY FAULT TYNDALL GROUP AND CORRELATES

Qz	Mainly quartz-feldspar-phyllic volcanic and volcanoclastic rocks (Qz).
S	Mainly sedimentary rocks, including Farrell Slates.
T	Mainly volcanoclastic conglomerate and sandstone.
Qz	Sticht Range Beds — sandstone, siltstone, siliclastic conglomerate.

### CENTRAL VOLCANIC COMPLEX

Qz	Mainly felsic-phyllic volcanics — dacite, rhyolite, minor andesite (Qz).
Qz	Felsic porphyry, mainly intrusive.
Qz	Mainly pyroclastic rocks.
Qz	Sedimentary rocks.
Qz	Andesitic volcanics.

### CENTRAL VOLCANIC COMPLEX

Qz	Mainly felsic-phyllic volcanics — rhyolite, dacite, minor andesite.
Qz	Felsic porphyry, mainly intrusive.
Qz	Mainly pyroclastic rocks.
Qz	Sedimentary rocks.
Qz	Andesitic volcanics.

### WESTERN SEQUENCE

Qz	Interbedded crystal and vitric tuff, shale, greywacke and quartz-feldspar-phyllic lavas and intrusives (Qz).
Qz	Felsic porphyry, mainly intrusive.
Qz	Miners Ridge Sandstone — quartzwacke and siltstone.
Qz	Basaltic-andesitic volcanics and intrusives.
Qz	Tholeiitic basalt at Miners Ridge.

### UNASSIGNED CAMBRIAN UNITS

Qz	Volcano-sedimentary sequence.
Qz	Sedimentary sequence.
Qz	Basaltic-andesitic volcanics.

### CAMBRIAN INTRUSIVE ROCKS

Qz	Granite.
Qz	Felsic porphyry.
Qz	Gabbro.
Qz	Ultramafic rocks and serpentinite.

### CRIMSON CREEK FORMATION

Qz	Mafic greywacke, mudstone, tholeiitic basalt.
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### SUCCESS CREEK GROUP

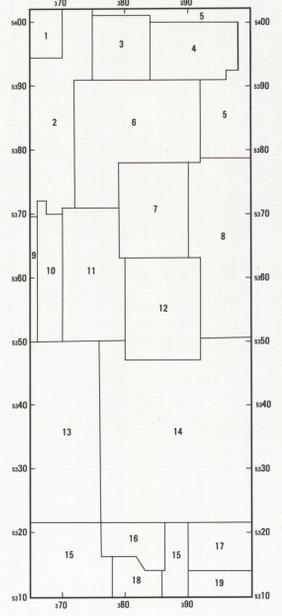
Qz	Quartz sandstone, mudstone, siltstone with minor conglomerate and carbonate.
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### PRECAMBRIAN

Qz	Quartzite-slate sequences — correlates of Donagh Formation.
Qz	Metamorphosed sequences of Tyennan Region. Major tectonological boundary trends shown.

— — —	Geological boundary — approximate.	⊙	Cambrian fossil locality.
— / — /	Bedding, facing known, unknown.	⊙	Operating mine.
— — —	Fold axial trace with plunge.	⊙	Prospect or abandoned mine.
— — —	Overturned anticline, syncline.		
— — —	Fault — approximate.		

### SOURCE DIAGRAM



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