



REFERENCE

QUATERNARY

- Qa Alluvial deposits - river flood plain with main gravel areas indicated-quartz (Qm), dolerite (Qd), valley, swamp and lagoon (Qs) deposits.
- Qb Deposits on older terraces - mainly of Permian rock fragments, some dolerite boulders.
- Qc Windblown and locally derived sand.
- Qd Beach talus.
- Qe Permian-rock talus. Qem - mixed.
- Qf Dolerite talus and scree.
- Qg Lign deposits - ferruginous blocky gravel with evidence of original lagoon material in some localities.

TERTIARY

- T3 Ferricrete, including laterite with minor alumina rich areas.
- T2 Unconsolidated and poorly consolidated quartz gravel.
- T1 Silica stone (quartzite and siltstone).
- T0 Clay, sandy clay, unconsolidated and poorly consolidated sand. Low angle unconformity.

MESOZOIC

TRIASSIC

- Ts Shale and quartz sandstone sequences, minor lithic sandstone beds.
- Ts1 Discontinuously bedded coarse grained sandstone, minor shale horizons.

PERMIAN

- Jockey Formation - sandstone and shale beds often carbonaceous and/or micaceous.
- Dugan Gap Group - siltstone, sandy siltstone, minor sandstone beds with infrequent dolerites, occasional fossil horizons (Dg) and limestone lenses (Dl). Blackwood Conglomerate (Bc) and Palmer Sandstone (Ps) indicated.
- Flinders Group - siltstone, sandstone with dolerites, and some fossiliferous horizons (Fg). Flinders Sandstone (Fs) shows where observed and a persistent fossil horizon (Fh).
- Lilly Group - massive bedded coarse grained sandstone, thinly bedded fine grained sandstone, carbonaceous shale.
- Clifton Valley Group - dark grey siltstone and mudstone, poorly bedded sandstone, siltstone with dolerites, some limestone rich in fossils. King Sandstone (Ks) and limestone beds (Lb) marked where observed.
- Clarence Sandstone - dark grey poorly bedded mudstone with occasional dolerites, containing glauconites, some limestone horizons (Cl) - occasionally fossiliferous (Clf).
- Stoney Hill - siltite with some limestone horizons (Sh).
- Sandstone horizons (Ss), rhythmites (R).

PRECAMBRIAN to CAMBRIAN

- Unconformity.
- Essentially volcanic rocks including sequences of tuff, volcanic breccia, rhyolite conglomerate, minor siliceous rocks.
- Cu Dominantly phyllite, minor areas of basic fine grained igneous rocks.
- Limestone.
- Dolerite.

PROTEROZOIC to CAMBRIAN

Igneous Rocks

TERTIARY

- Ts Dolerite.

JURASSIC

- Jd Dolerite.

CAMBRIAN

- Cs Actinolite schist.

Geological boundary - position approximate.

Geological boundary - inferred.

Geological boundary - transitional.

Fault - position approximate (downthrown side indicated).

Fault - inferred.

Strike and dip of bedding, right way up.

Bedding horizontal.

Strike and dip of bedding, facing unknown.

Strike and dip of surface, possible bedding.

Approximate strike and dip of bedding, right way up.

Strike and dip of dominant cleavage surfaces.

Direction and plunge of hinge line of minor anticline with dip of axial surfaces indicated.

Direction and plunge of lineation of intersecting surfaces.

Direction and plunge of banding.

Alphabetic lineation.

Borehole with subsurface depth in metres to geological unit.

Exact volcanic centre.

Landing.

Million workings.

Quarry - road stone and unknown use.

Quarry - building stone or allied use.

Quarry - mortar raw material.

LOCATION MAP

UNIVERSAL GRID REFERENCE

GRID ZONE DESIGNATION: 52 QUG

TO OBTAIN A STANDARD REFERENCE ON THE GRID TO NEAREST 100 METRES:

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HORIZONTAL DATUM

2nd and 3rd order Triangulation based on Australian Geodetic Datum 1966

DETAIL

Aerial Photography

Photogrammetric

PROJECTION

Transverse Mercator

LEVEL DATUM

Mean Sea Level at Hobart

NON-COLLINEARITY

Approved by the Non-collinearity Board of Tasmania

GRID CONVERGENCE

Based on Longitude 146°00'E

CO-ORDINATES

Australian Map Grid Zone 55

False Origin is 500,000 metres West and 10,000,000 metres South of the True Origin of the Zone

INDEX TO ADJOINING SHEETS

QUARTZ	LONGFORD	BEN LONARD
GREAT LAKE	LAKE RIVER	SNOW HILL
LAKE ECHO	INTELLAKEN	TOWNS

Magnetic Variation from True North for the centre of this sheet, approximately 13°30'

Annual change +0.2E (approx.)

SCALE 1:50,000

CONTOUR INTERVAL 20 METRES

0 1 2 3 4 5 6 7 8 9 10 METRES

0 1 2 3 4 5 6 7 8 9 10 METRES

0 1 2 3 4 5 6 7 8 9 10 METRES

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RESPONSIBILITY DIAGRAM

W.L.M.

Geology by W.L.MATTHEWS B.Sc.

Base map reference from South 1:63,000 map produced by Lands Department, Hobart.

Geological map production by Drawing Office, Department of Mines, Hobart.

Compiled under the direction of J.B. SYMON B.E. Director of Mines.

Published 1974

Printed by Mercury-Webb Pty. Ltd., Hobart, Australia.

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