



REFERENCE

QUATERNARY

- Qa Alluvium, swamp and marsh deposits.
- Qs Younger well-sorted dune sand with some dune crests indicated, beach sand and gravel.
- Qd Older well-sorted dune sand with dune crests indicated, beach sand and gravel.
- Qc Clay, sand, minor peat and gravel, sometimes containing marine shells and transported fragments. An occurrence of sea-marine mud indicated (Qcm at EG 58977B).

EROSIONAL SURFACE

TRIASSIC

- Ts Sand, gravel and clay (Tsc), ferruginous fine sand dominant (vertical line overprint TsV) - probably overlies basalts (Tb). Log and nature of subvolcanic quartz sandstone and conglomerate indicated (diagonal line overprint Ts). Late Triassic marine limestone occurrence shown (Tsl at EG 82987B). Spotted overprint indicates mud deposited.
- Low angle unconformity.

PERMIAN

- Pm Fresh-water cross-bedded quartz sandstone (PmP) - Permian Super-Group.
- Pf Sparingly fossiliferous marine sandstone and siltstone with dropstones (Lower Permian-marine sequence). Undifferentiated Permian rocks at EG 53082D indicated (P). Angular unconformity.

DEVONIAN-SILURIAN-ORDOVICIAN (?)

- SDs Quartzite turbidite sequence (SDs). Contact metamorphic granulite, spotted gneiss and minor schist (SDsm).

IGNEOUS ROCKS

TRIASSIC

- Ts Alkali basalt (Tsb), tholeiite (Tst), shivite nephelinite (Tsn).

CRETACEOUS

- Cc Andesite (Ca) with andesitic lava flow (Caf) and Lamprophyre dykes (Cal) indicated.

JURASSIC

- Jd Diabase.

MINOR GRANITE INTRUSIONS

- Quartz-feldspar porphyry (Qfp), aplite (Qpa), quartz-monzonite rocks (Qmz), fine-grained granitic gneiss (Qgg), coarse-grained granite (Qcg), porphyritic coarse-grained granite (Qcpg), quartz-monzonite (Qmz), quartz-orthogneiss (Qo), quartz-tourmaline gneiss (Qtg).

MAJOR GRANITE INTRUSIONS

SCOTTISLE BATHOLITH

- Bs Basite-hornblende granulite.

BLUE TIER BATHOLITH

- Pegmatitic, fine- to coarse-grained garnet-bearing biotite-muscovite granite / adamellite (Btg).
- Dominantly fine- to medium-grained granite/adamellite (Btm), equigranular, dominantly medium-grained biotite-muscovite granite/adamellite (Btm), porphyritic fine- to medium-grained biotite-muscovite granite/adamellite (Btm), and biotite-muscovite granite/adamellite (Btm) with phenocrysts of feldspar and rounded quartz (Btm). (1) with phenocrysts of feldspar (Btm), sparse phenocrysts (Btm).
- Porphyritic, coarse-grained biotite and biotite - minor muscovite granite/adamellite (Btm), sparsely porphyritic to equigranular (Btm).
- Biotite-hornblende granulite (Btg) - see EG8973A. Biotite granulite (Btg). Area of fine and small outcrops of granulite and hornblende metabasite indicated by decoration on Btg, Btg.

DEVELOPMENT OF SYMBOLS

- Geological boundary - position approximate.
- Geological boundary - inferred.
- Fault - inferred.
- Strike and dip of beds, right way up, overturned, facing unknown.
- Vertical bedding, facing known, facing unknown.
- Strike and dip of early change, vertical.
- Strike and dip of late change, vertical.
- Direction and dip of lineation, vertical.
- Strike and dip of foliation due to mineral alignment in igneous rocks, vertical, foliation, horizontal, foliation.
- Strike of apparent lineation in outcrop surface of igneous rocks.
- Strike and dip of joint, vertical, joint.
- Field station for adjacent readings on map.
- Bore hole with depth of rock - type encountered and final depth.
- Palaeocurrent directions.
- Alluvial workings.
- Abandoned alluvial workings.

ROAD

- Vehicular track.
- Trigonometric station.

UNIVERSAL GRID REFERENCE

TO OBTAIN A STANDARD REFERENCE ON THIS SHEET TO ANY POINT, 100 METRES

1. Read across horizontally to the 100 000 metre mark on the grid.
2. Read down vertically to the 100 000 metre mark on the grid.
3. Read across horizontally to the 100 000 metre mark on the grid.
4. Read down vertically to the 100 000 metre mark on the grid.

EXAMPLE

100 000 100 000

100 000 100 000

HORIZONTAL DATUM Australian Geoid Datum 1966 (AGD66) based on mean sea level 1900-1905.

VERTICAL DATUM Australian Height Datum (AHD) based on mean sea level 1900-1905.

MAGNETIC VARIATION For the centre of this sheet approximately 12° 30' E, annual change 4.5 E.

RESPONSIBILITY DIAGRAM

Geology by P. H. Bath, B.Sc., N. Turner, B.Sc. (Hons), S. F. Cox, B.Sc. (Hons), with contributions by G. J. Jennings, B.Sc. (Hons) and P. L. Southwood, M.Sc. Bath map sections from Cape Portland 1:50 000 map, prepared by Leigh Department, Hobart. Geology map produced by Regional Mapping Section of the Geographical Drawing Office, Department of Mines, Hobart.

Cartography by G. Mack, H. Mackintosh, I. B. Jennings, S. J. Hether, Chief Geographers.

Compiled under the direction of J. S. Symon, B.Sc. (Hons), Director of Mines, based on the authority of the Director for Resources and Energy.

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SCALE 1:50 000

CONTOUR INTERVAL: 20 METRES

0 1 2 3 4 5 6 7 8 9 10

0 1 2 3 4 5 6 7 8 9 10

0 1 2 3 4 5 6 7 8 9 10

LOCATION MAP

Map of Tasmania showing the location of the Boobyalla sheet (8416 S) in the south-eastern corner.

ADJOINING SHEETS

- 8416 T (North)
- 8416 U (East)
- 8416 V (South)
- 8416 W (West)

BOOBYALLA SHEET 8416 S (24)