

SOUTHERN
OCEAN

NYE
BAY

GIBLIN
RIVER

GIBLIN
RIVER

GIBLIN
RIVER

CENOZOIC	QUATERNARY	
	HOLOCENE	PLEISTOCENE
	Qha	Stream alluvium, swamp and marsh deposits (Qha).
	Qhb	Beach sand (Qhb).
	Qhd	Dune sand (Qhd).
	Qaf	Alluvial fans (Qaf).
	Qpsd	Older stabilised sand dunes (Qpsd).
	TQgs	Gravel and sand deposits associated with surface at approximately 50m a.s.l. includes vein quartz lag and probate younger alluvial deposits (TQgs).
	Ts	Predominantly unconsolidated gravels, commonly rounded (Ts).
	Tsga	Angular gravel of mainly vein quartz (Tsga).

PALEOZOIC	CAMBRIAN SERIES 3	
	ORDOVICIAN	DEVONIAN
	OI	Dark grey limestone, dolomite, calcareous mudstone, minor quartz sandstone. Fossiliferous in places. Concealed by Cenozoic cover in Giblein River area. Correlate of Giblein limestone (OI).
	Os	Predominantly grey quartz sandstone, commonly bioturbated or cross bedded. Minor coarse sandstone, pebbly sandstone and conglomerate at base. Probable correlate of Mount Sandstone (Os).
	Cdsq	Bedded volcanoclastic sandstone, siltstone and minor siliceous sandstone abutting Proterozoic rocks. Possible correlate of Sticht Range Beds (Cdsq).

MESOPROTEROZOIC	TENNAN REGION METASEDIMENTARY ROCKS	
	PROTEROZOIC	DEVONIAN
	Pts	Metamorphic rocks, dominantly metaquartzite and metapelite (Pts). Dominantly quartzite (Pts).
	Ptsm	Quartzite with interlayered quartz-mica and mica-quartz phyllite (Ptsm).
	Ptp	Phyllite and quartz-schist (Ptp).
	Ptpg	Phyllite and quartz-schist (Ptpg). Dominantly phyllite (Ptpg).
	Ptpg	Fine- to coarse-grained, often thinly banded, pelitic, garnetiferous quartz-mica and mica-quartz schist, commonly containing phengite, biotite, almandine, zircon and chlorite. Minor gneiss, amphibolite and granite. Relatively high metamorphic grade (Ptpg).

IGNEOUS ROCKS

• DI	Lamprophyre dykes (DI).
Cdbc	Mafic dykes, typically chlorite-altered (Cdbc).
Cgrb	Biotite granite-quartz monzonite, medium to coarse-grained (Cgrb).
Cprk	K-feldspar phytic granite, medium to coarse-grained (Cprk).
Cgra	Granite-related apite, microgranite or quartz-feldspar porphyry dykes (Cgra).
Cgtp	Quartz-feldspar-biotite porphyry, coarse-grained (Cgtp).
• Cgrn	Local occurrences of granite, associated with high grade metamorphic rocks in the Nye Bay area. Dated at 508±9 Ma (W.D.M. Hall pers. comm.) (Cgrn).
Pts	Amphibolite (Pts).

CONTACTS

—	Geological contact.
- - -	Geological contact - inferred.
---	Limit of mapping of sub-unit within undifferentiated rock unit.
---	Limit of detailed mapping.

FAULTS

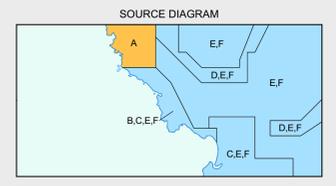
---	Fault.
- - -	Fault - inferred.
---	Fault - concealed.

LINEARS

---	Lineament - visible on aerial photographs.
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CONTACTS (continued)

↗	Dip of geological contact of unspecified type.
↗	Strike and dip of bedding, facing unknown, right way up; horizontal.
↗	Strike and dip of cleavage of unspecified type and relative age; vertical.
↗	Strike and dip of cleavage, relative local age S ₁ , S ₂ .
↗	Trend and plunge of minor fold hinge line, unspecified relative age, vergence dextral; with dip and dip direction of axial surface.
↗	Trend and plunge of minor fold hinge line, unspecified relative age, vergence sinistral; with dip and dip direction of axial surface.
↗	Trend and plunge of minor fold hinge line, unspecified relative age, symmetrical; with dip and dip direction of axial surface.
↗	Strike and dip of metamorphic foliation other than cleavage; vertical; parallel to compositional layering.
↗	Trend and plunge of hinge line of reclined minor fold, unspecified relative age, symmetrical.
↗	Strike and dip of mafic schlieren associated with granitic rock.
↗	Strike and dip of dominant joint set.
↗	Trend and plunge of lineation of unspecified type.
↗	Strike and dip of outcrop-scale fault of unspecified relative age, type unspecified.
•	Field station for adjacent readings on the map.
•	Notable small outcrop with rock unit indicated.



Compiled by W.D.M. Hall and M.J. Vicary, 2006 from the following sources (see source diagram):

A PEMBERTON, J., VICARY, M.J., BRADBURY, J., and CORBETT, K.D. 1991. Geology of the Elliott Bay - Mt Omond area. Map 10. Mt Read Volcanics Project. Department of Mines, Tasmania.

B McNeil, A.W., 1985. The structure and petrology of the Nye Bay area, South West Tasmania. B.Sc. Honours Thesis, University of Tasmania.

C Limited traverses by W.D.M. Hall 2004-2005.

D Limited traverses by W.D.M. Hall and M.J. Vicary, 2006.

E Hall, W.D.M. et al. 1969. 1 inch-Mile Rocky Point and De Witt Geological Maps. Broken Hill Proprietary Company Limited. TCR 09_0555.

F Air photograph interpretation by W.D.M. Hall and M.J. Vicary, 2006.

REFERENCE THIS MAP AS:

Hall, W.D.M. and Vicary M.J. (compilers) 2006. Digital Geological Atlas 1:25 000 Scale Series, Sheet 3823 Elliott. 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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