

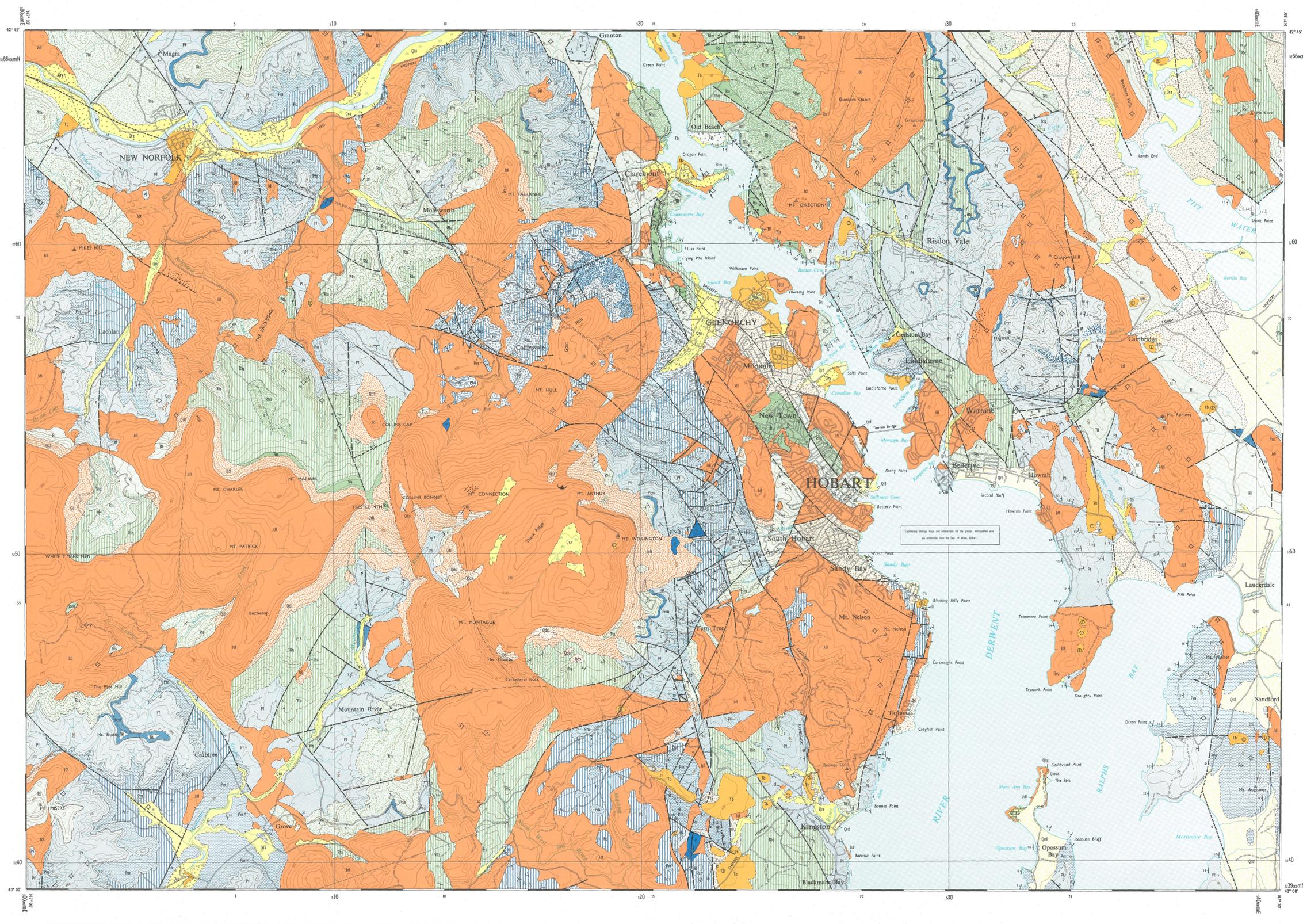
HOBART

GEOLOGICAL SURVEY OF TASMANIA
DEPARTMENT OF MINES - HOBART

GEOLOGICAL ATLAS 1:50,000 SERIES
83125 ZONE 7 SHEET N° 82



FIRST EDITION 1972



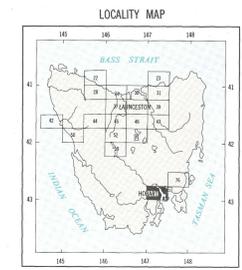
REFERENCE

QUATERNARY	Q1f	Reclamation fill.	
	Q1d	Dune and windblown sand.	
	Q1a	Alluvial deposits including younger gravel and marsh and swamp deposits.	
	Q1g	Older gravel.	
	Q1s	Dolerite scree.	
	Q1t	Dolerite talus.	
	Q1b	Basalt talus.	
	Q1p	Permian siltstone talus.	
	Q1m	Mary Ann Bay sandstone.	
	TERTIARY	T1	Post-basalt gravel.
T2		Sub-basalt tuff.	
T3		Predominantly sub-basalt silt and fine sand with lignite bearing material stippled.	
MESOZOIC	TRIASSIC	Tr	Unconformity.
		Ru	Upper Triassic lithic arkose and lutite, coal bearing, undifferentiated.
	JURASSIC	J1	Predominantly massive quartz mudstone, minor quartz sandstone, occasional beds of lithic sandstone coal.
		J2	Dominantly medium and fine quartz sandstone, minor mudstone. Much mica and graphite on bedding contains 10% feldspar — Clay pellet lenses (indicated).
		J3	Dominantly medium-coarse quartz sandstone with minor mudstone, minor mica, and feldspar content, contains clay pellet beds.
CRETACEOUS	J4	Thickly bedded, medium-coarse quartz sandstone with grit (Rig) and very minor usually black shale layers.	
	J5	Cyrene Coal Measures — including quartz arkose, carbonaceous mudstone rocks containing carbonaceous fragments.	
PALAEOZOIC	PERMIAN	P1	Fentree Group — unfossiliferous quartz siltstone, including Risdon Sandstone and correlates at base.
		P2	Malbina Formation — quartz sandstone and siltstone fossiliferous in upper and lower members only.
		P3	Cascades Group — fossiliferous beds of dominantly mudstone and siltstone, with Berriedale Limestone indicated where present. (P3b).
		P4	Faulkner Group — conglomerate, sandstone, mudstone, and shale. Occasionally fossiliferous.
P5	Bundella Formation — fossiliferous sometimes calcareous mudstone.		
P6	Undifferentiated Lower Permian, predominantly unfossiliferous quartz mudstone.		

Igneous Rocks

Ib	Tertiary basalt.
Ij	Jurassic dolerite with granophyres stippled.

—	Geological boundary — observed with dip if known.		
- - -	Geological boundary — position approximate.		
---	Geological boundary — inferred.		
- - -	Igneous intrusive geological boundary — observed with dip if known.		
- - -	Igneous intrusive geological boundary — position approximate.		
---	Arthropo linear.		
---	Post-dolerite fault — exposed (downthrown side indicated).		
---	Post-dolerite fault — position approximate (downthrown side indicated).		
---	Post-dolerite fault — position inferred and concealed (downthrown side indicated).		
---	Intrusive dolerite boundary along pre-existing fault — position approximate (downthrown side indicated).		
---	ticks indicate posthumous post-dolerite movement.		
---	Strike and dip of beds, facing known.		
---	Horizontal beds.		
---	Direction of sediment bearing current.		
○	Extinct basic volcanic centre.		
◇	Dolerite leader axis, estimated depth in metres where known if concealed.		
●	Macrofossil locality in poorly fossiliferous sequences.		
◇	Plant fossil locality.		
◇	Stratigraphic borehole with log summary (all depths in metres).		
◇	1. 0-10 Pm	◇	0-10 Pm/Pm
◇	10-100 Pm	◇	10-100 Pm
◇	100-500 Pm	◇	100-500 Pm
◇	500-1000 Pm	◇	500-1000 Pm
◇	1000-1500 Pm	◇	1000-1500 Pm
◇	1500-2000 Pm	◇	1500-2000 Pm
◇	2000-2500 Pm	◇	2000-2500 Pm
◇	2500-3000 Pm	◇	2500-3000 Pm
◇	3000-3500 Pm	◇	3000-3500 Pm
◇	3500-4000 Pm	◇	3500-4000 Pm
◇	4000-4500 Pm	◇	4000-4500 Pm
◇	4500-5000 Pm	◇	4500-5000 Pm
◇	5000-5500 Pm	◇	5000-5500 Pm
◇	5500-6000 Pm	◇	5500-6000 Pm
◇	6000-6500 Pm	◇	6000-6500 Pm
◇	6500-7000 Pm	◇	6500-7000 Pm
◇	7000-7500 Pm	◇	7000-7500 Pm
◇	7500-8000 Pm	◇	7500-8000 Pm
◇	8000-8500 Pm	◇	8000-8500 Pm
◇	8500-9000 Pm	◇	8500-9000 Pm
◇	9000-9500 Pm	◇	9000-9500 Pm
◇	9500-10000 Pm	◇	9500-10000 Pm



HORIZONTAL DATUM
2nd and 3rd order Transverse Mercator based on Australian Geodetic Datum 1966.

DETAIL
Aerial Photography.

PROJECTION
Transverse Mercator.

LEVEL DATUM
Mean Sea Level Hobart.

NOMENCLATURE
Approved by Nomenclature.

GRID CONVERGENCE
Based on Longitude 147° 00' E.

CO-ORDINATES
Australian Map Grid Zone 55.
False origin 500,000 metres west and 10,000,000 metres South of the True Origin of the Zone.

INDEX TO ADJOINING SHEETS

ELLENDALE	BRIGHTON	BUCKLAND
STYX	HOBART	SORELL
PICTON	KINGSBOROUGH	TASMAN

SCALE 1:50,000
CONTOUR INTERVAL 40 METRES

RESPONSIBILITY DIAGRAM

Original map production at 1:63,360
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Geology by D.E. LEMMAN B.Sc. (Hons.) Ph.D. including revisions and remapping.
Previous mapping by M.R. BARKER et al. 1965, C.C. GILBERTSON 1967, R.P. MATHY 1965,
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