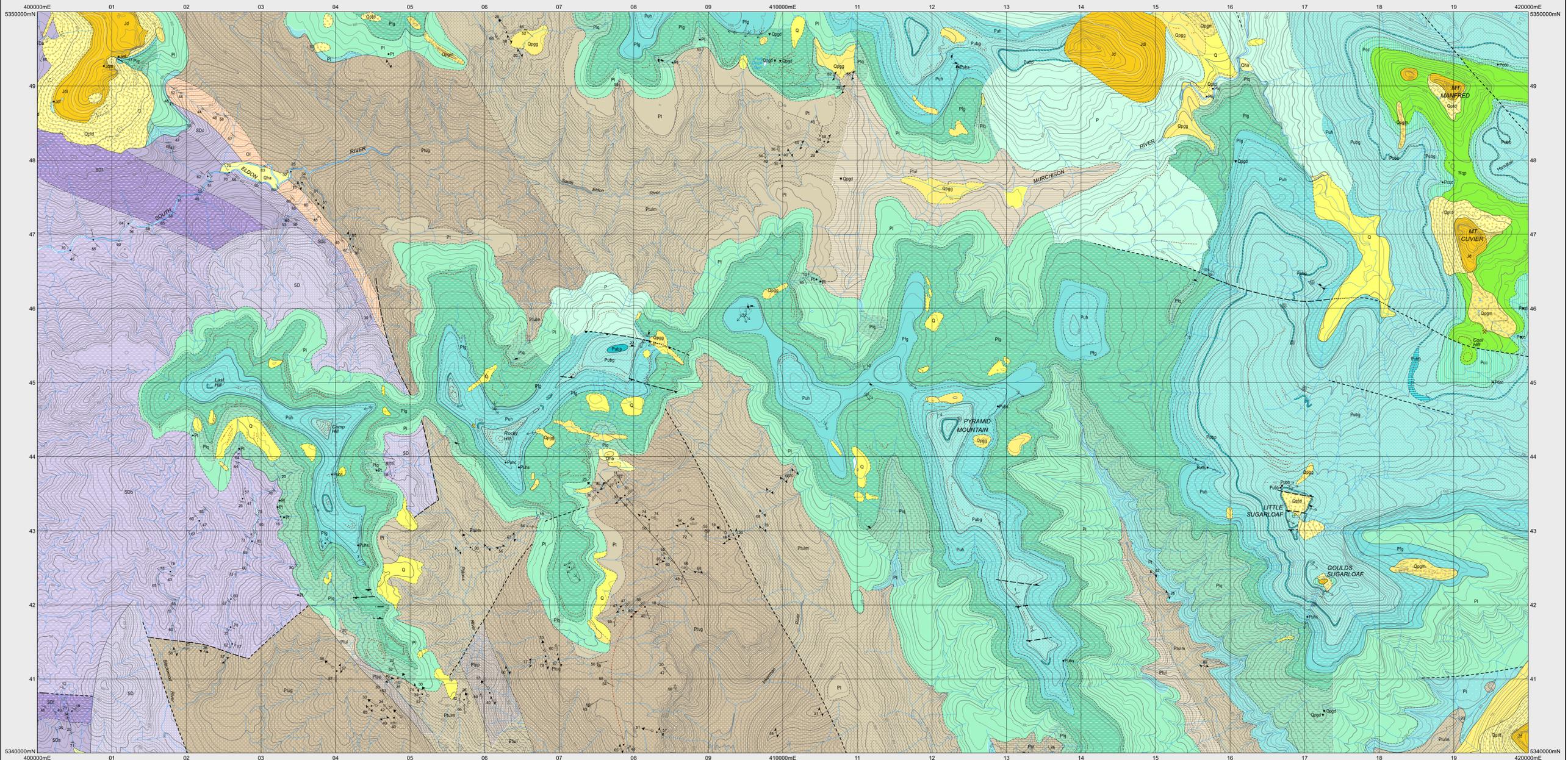


GOULDS

Scale 1:25 000

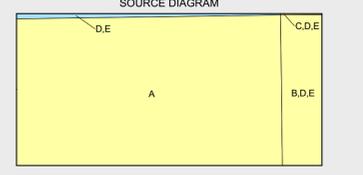


CENOZOIC	QUATERNARY		PLEISTOCENE
	Qha	Q	
	Undifferentiated Quaternary sediments (Q)	Stream alluvium, swamp and marsh deposits (Qha)	
	Qptr	Scree of dolerite boulders (Qptr)	
	Qpdt	Talus consisting dominantly of dolerite boulders (Qpdt)	
	Qpdp	Talus dominantly of Lower Permian Supergroup rocks and Jurassic dolerite (Qpdp)	
	Qpdy	Younger glacial deposits, mostly of till, unweathered or slightly weathered (Qpdy)	
	Qpgr	Glacial and glaciene deposits (Qpgr), with isolated dolerite glacial erratics (Qpgr)	
	Qpgh	Moraine and associated deposits (Qpgh)	
MESOZOIC	TRIASIC		UPPER PERMIAN SUPERGROUP
	Rap	Dominantly freshwater cross-bedded quartzite sandstone, micaceous siltstone and mudstone (correlate of Ossa Formation) (Rap)	
	Poc	Freshwater feldspathic sandstone and siltstone, occasionally carbonaceous (correlate of Cynnet Coal Measures) (Poc). Local occurrences of coal seams within Poc (Poc).	
	Pubg	Glacio-marine, sparsely fossiliferous, poorly-sorted mudstone, siltstone and silty sandstone with dropstones. Dropstones more common below Blackwood Conglomerate horizon (correlate of Bogan Gap Group) (Pubg).	
	Puba	Quartzose pebbly sandstone, granule to pebble conglomerate and sandstone and cross-bedded sandstone (possible correlate of Blackwood Conglomerate) (Puba).	
	Pubp	Well-sorted medium- to coarse-grained sandstone with thin conglomerate layers (possible correlate of Palmer Sandstone) (Pubp).	
PALEOZOIC	PERMIAN		LOWER PERMIAN SUPERGROUP
	Puh	Glacio-marine, generally richly fossiliferous siltstone, sandstone and subordinate conglomerate, sandstone and impure limestone (Puh); dark grey siltstone with Bernacchian Stage fauna (Puh).	
	Pudc	Green conglomeratic sandstone (Pudc).	
	Pig	Cross-bedded, rippled or planar bedded quartz sandstone and carbonaceous siltstone, commonly enclosing a middle interval dominantly of siltstone, locally with dropstones and lenticular (Pig).	
	Pi	Lower glaciomarine sequences of mudstone, pebbly mudstone, pebbly sandstone, minor limestone and Tasmanite oil shale (Pi). Glacio-marine siltstone and very fine-grained sandstone, sparsely fossiliferous with a middle interval including well-sorted bioturbated sandstone with conglomerate lenses and some richly fossiliferous beds (correlate of Golden Valley Group) (Pi).	
	Piq	Massive to poorly bedded grey uniform fine- to medium-grained siltstone with occasional iron sulphide concretions and rare glauconites. Rare thin layers of fossils near top in some areas (correlate of Quenby Mudstone) (Piq).	
	Pi	Cobble and subordinate boulder tillite with intervals of laminated mudstone and fine-grained sandstone, absent in some areas (Pi).	

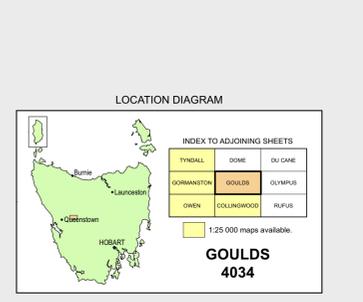
PALEOZOIC	ORDOVICIAN-SILURIAN-DEVONIAN		ELDON GROUP
	SDb	SDf	
	Shallow marine quartz sandstone, siltstone and shale (Eldon Group correlates) (SDb)	Mudstone, siltstone, minor fine-grained sandstone and rare limestone (correlate of Bell Formation) (SDb).	
	SDf	Fine-grained quartz sandstone and minor siltstone and mudstone (correlate of Florence Formation) (SDf).	
	SDa	Mainly mudstone and siltstone with minor sandstone and rare limestone (correlate of Amber Formation) (SDa).	
	SDc	Fine- to coarse-grained quartz-rich sandstone, calcareous sandstone and minor mudstone (correlate of Crofty Formation) (SDc).	
	Oi	Dark grey limestone, dolomite, calcareous mudstone, minor quartz sandstone and black clay weathering products, in part fossiliferous (Gordon Group and correlate) (Oi).	
MESOZOIC	JURASSIC		TYENMAN REGION METASEDIMENTS
	Ppug	Lithologically undifferentiated, commonly garnetiferous, rocks of relatively high metamorphic grade, including massive schistose quartzite and fine- to coarse-grained pelitic quartz-mica schist (Ppug).	
	Ppui	Dominantly grey to green carbonaceous pelitic quartz-phengite phyllite. Non-garnetiferous and relatively low metamorphic grade (Ppui).	
	Ppui	Lithologically undifferentiated rocks of intermediate to low metamorphic grade (garnet minor to absent), including phyllite, fine-grained quartzite and dolomitic schist (Ppui).	
	Ppui	Lithologically undifferentiated rocks of low metamorphic grade (Ppui).	
	Ppui	Lithologically undifferentiated rocks of low metamorphic grade including non-garnetiferous quartzite and phyllite (Ppui).	
	Ppui	Massive, silicified and oolitic dolomite and dolomitic breccia interbedded with pelitic phyllite and fine-grained phengitic quartzite (Ppui).	
INTRUSIVE ROCKS			
	Jd	Dolerite and related rocks (Jd), including fine-grained (0.7-1.5mm) dolerite (Jdf), medium-grained (1.5-3mm) dolerite (Jdm) and inferred dolerite outcrop beneath surficial deposits (Jdi).	

CONTACTS	
—	Geological contact.
- - - - -	Geological contact - inferred.
- · - · - · -	Transitional geological contact.
—	Limit of mapping of sub-unit within undifferentiated rock unit.
FAULTS	
—	Fault.
- - - - -	Fault - inferred.
· · · · ·	Fault - concealed.
—	Normal fault (downthrown side indicated).
- - - - -	Normal fault (downthrown side indicated) - inferred.
· · · · ·	Normal fault (downthrown side indicated) - concealed.
LINEARS	
—	Axial surface trace of major antiform.
—	Moraine ridge crest.
—	Lineament - visible on aerial photographs.
—	Lithological trend line, including bedding trace interpreted from aerial photographs.

↗	Strike and dip of bedding facing known, right way up.
↖	Strike and dip of bedding, facing unknown.
↗↖	Strike and dip of compositional layering.
↗↖	Strike and dip of cleavage, type and relative age unspecified - dipping; vertical.
↗↖	Strike and dip of dominant joint set.
↗↖	Strike and dip of cleavage, relative local age S ₁ , however locally S ₂ (in quartzite units) or S ₃ - dipping; vertical.
↗↖	Strike and dip of crenulation cleavage.
↗↖	Trend and plunge of lineation L ₁ , formed by intersection of cleavages or foliations of relative local ages S ₁ and S ₂ , relative local age F ₁ .
↗↖	Trend and plunge of minor fault hingeline, unspecified relative age - with dip and dip direction of axial surface; with vertical axial surface.
↗↖	Generalised paleocurrent direction, showing sense of movement.
·	Field station for adjacent readings on the map.
·	Notable small outcrop with rock unit indicated.
·	Notable erratic boulder with rock unit indicated.
·	Macrofossil location.
·	Mineral deposit location - hardrock.



- Highly detailed (eg. more detailed than 1:25 000 scale mapping).
 - Detailed systematic (eg 1:25 000 map or equivalent detail).
 - Regional systematic (eg 1:50 000, 1:63 360 map or equivalent detail).
 - Regional mapping less detailed than 1:63 360 map or equivalent (all other scales).
 - Reconnaissance mapping with sparse ground traverses.
 - Remote sensing and/or geophysical interpretation with limited or no ground information.
- Compiled by M.J. Vicary, B.Sc.(Hons), 2004 as part of the Western Tasmanian Regional Minerals Program, from the following sources (see source diagram):
- CALVER, C.R., BAILEY, P.W., EVERARD, J.L., SEYMOUR, D.B., WILLIAMS, P.R., FORDYTH, S.M., TURNER, H.J. and WILLIAMS, E. 1987. Geological Atlas 1:50 000 Series, Sheet 58 (8013N), Lyell. Tasmania Department of Mines.
 - GULLINE, A.B., LONGMAN, M.J. and MATTHEWS, W.L. 1963. Geological Atlas 1:63 360 Series, N0113 and B Zone 7 Sheet 58 58 58 58. Tasmania Department of Mines.
 - JENNINGS, I.B., MACLEOD, W.N., BURNS, K.L., JACK, R.H., MATTHEWS, W.L., ROBINSON, R.G. and THREADER, V.M. 1961. Geological Atlas 1:63 360 Series, Zone 7 Sheet 58, Du Cane. Tasmania Department of Mines.
 - S.M. Forryth, Unpublished data.
 - VICARY, M.J. 2005. Additional map compilation and review of existing maps in western Tasmania. Tasmanian Geological Survey Record 2005/05, Mineral Resources Tasmania.



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Website: www.mrt.tas.gov.au
GDAS4 - MGA Zone 55. Contour Interval: 20 metres.

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