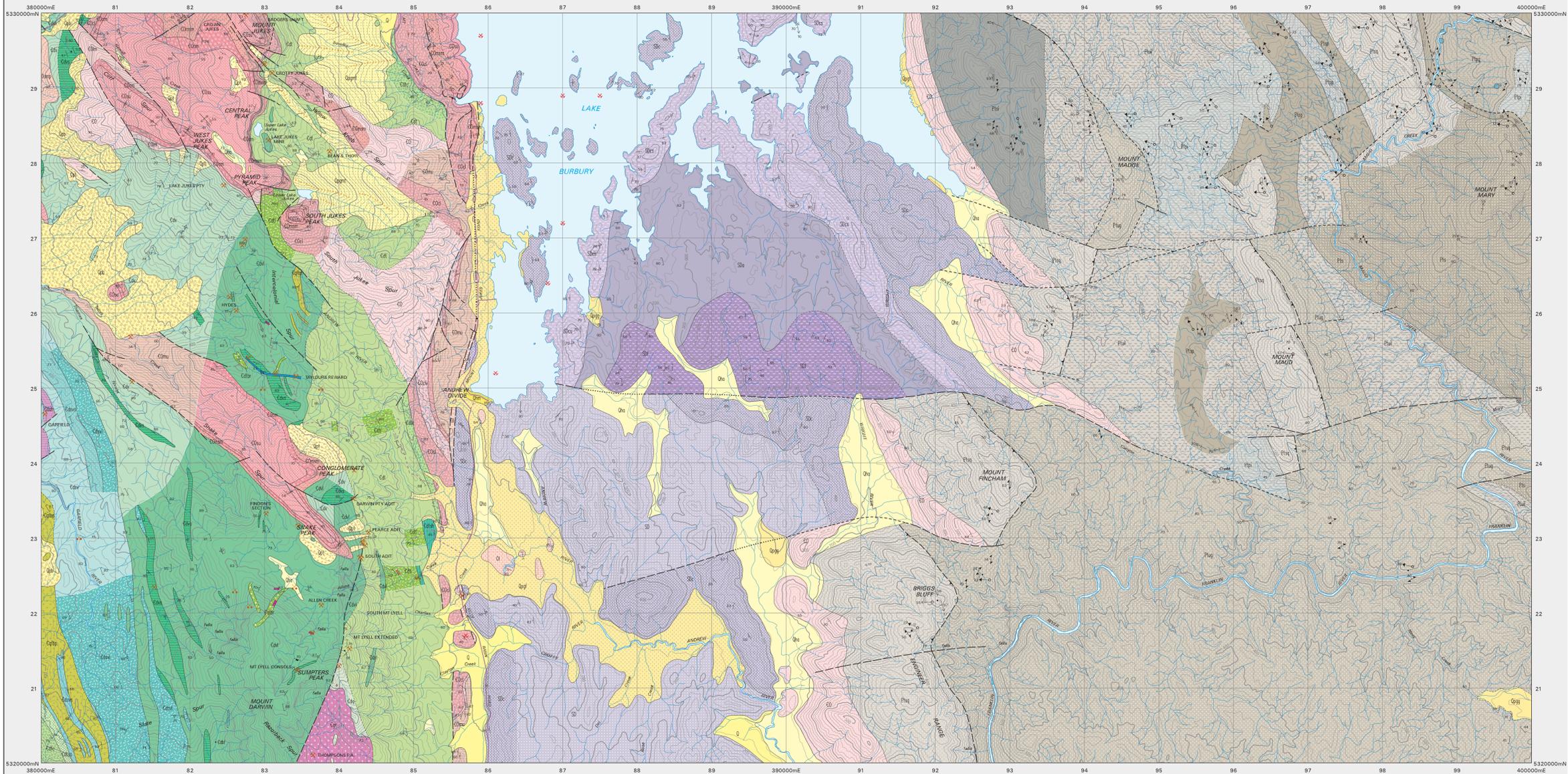
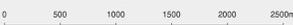


DARWIN

Scale: 1:25 000



PERIOD	UNIT	DESCRIPTION
CENOZOIC QUATERNARY	Qhm	Man-made deposits including mine dumps and disturbed ground (Qhm).
	Qha	Alluvium, swamp and marsh deposits. May include older alluvial deposits (Qha).
	Qp	Talus, scree and colluvial deposits (Qp).
	Qsp	Bouldery slope and fan deposits, commonly with leaved channels, probably partly of glacial origin (Qsp).
CENOZOIC PLEISTOCENE	Qspg	Undifferentiated Pleistocene glacial deposits (Qspg).
	Qspgm	Mainly 13 deposits - unweathered or slightly weathered (Qspgm). Deposits of Margaret Glaciation.
	Qspgl	Mainly outwash gravels (Qspgl).
	Qspgs </td <td>Older glacial deposits including outwash gravels and sands, fine-grained varicol deposits and till (Qspgs).</td>	Older glacial deposits including outwash gravels and sands, fine-grained varicol deposits and till (Qspgs).
PALAEOZOIC DEVONIAN	SD1	Fine-grained quartz sandstone with minor siltstone and mudstone (consists of Florence Formation) (SD1).
	SDa	Mainly mudstone and siltstone with minor sandstone and rare limestone (correlative of Anson Formation) (SDa).
	SD2a	Siltstone and fine-grained quartz-rich sandstone with common plane and low-angle cross-lamination (upper member of Cratly Formation) (SD2a).
	SDb	Mainly coarse- to fine-grained sandstone (commonly decomposed to a friable sand) with an upper sequence of siltstone and fine-grained sandstone in some areas (Cratly Formation and Corrales) (SDb).
PALAEOZOIC SILURIAN	OSmp	Limestone with some interbedded siltstone in places. Commonly decomposed to black clay 'mud' (OS).
	OSmp	Grey to pink quartz sandstone with basal pebble-granule conglomerate, trace fossils and chert-rich bands in upper part (Flores Bas and Corrales) (OSmp).
	OSm	Thin-bedded quartz sandstone, commonly bioturbated, with interbedded siltstone and minor granule-pebble conglomerate. Chert clasts in places. Bloturbation common (Upper Owen Sandstone and Corrales) (OSm).
	OSm	Mainly pale pink to cream coloured, thick-bedded pebble-cobble to cobble-boulder quartzite conglomerate, with minor quartz sandstone and some partly volcanoclastic sandstone in some areas (Middle Owen Conglomerate and Corrales) (OSm).
PALAEOZOIC CARBONIFEROUS	COm	Mainly thin-bedded pink quartzitic sandstone and pebbly sandstone with bands of pebble conglomerate minor siltstone (Middle Owen Sandstone and Corrales) (COm).
	COm	Mainly white/grey to pale pink pebble-cobble conglomerate and pebbly sandstone, quartz sandstone, with minor siltstone and volcanoclastic sandstone. (Lower Owen Conglomerate and Corrales) (COm).
	COm	Mainly grey-green volcanoclastic sandstone with minor siltstone (COm).
	COm	

PERIOD	UNIT	DESCRIPTION
PALAEOZOIC MIDDLE CARBONIFEROUS	Cat	Interbedded volcanoclastic and volcanic rocks, typically quartz-feldspar-phyrlic (Tynall Group and Corrales) (Cat).
	Catv	Mainly volcanoclastic conglomerate and sandstone with minor mudstone. Quartz-rich matrix. Sparse quartzite clasts in places (Catv).
	Catv	Mainly well-bedded quartz-feldspar crystal-rich volcanoclastic sandstone with minor siltstone and volcanoclastic conglomerate, graded bedding common (Catv).
	Catv	Felsic lava, typically quartz-feldspar-phyrlic (Catv).
PALAEOZOIC LOWER CARBONIFEROUS	Cdv	Interbedded siltstone, mudstone, volcanoclastic sandstone and mass-flow breccia (Cdv).
	Cdv	Breccia bodies usually with quartz-feldspar-rich matrix and abundant clasts of locally derived lava and cherty ash (Cdv).
	Cdv	Quartz-feldspar-phyrlic volcanic and volcanoclastic rocks (Cdv).
	Cdv	Siltstone, mudstone, quartz-feldspar-phyrlic lava and lava breccia, minor feldspar-phyrlic units (Cdv).
PALAEOZOIC LOWER CARBONIFEROUS	Cdv	Mainly felsic volcanoclastic and pyroclastic rocks, dominantly feldspar-phyrlic, including pumice-bearing units, minor shale and sandstone (Cdv).
	Cdv	Units of bedded siltstone, sandstone and volcanoclastic breccia (Cdv).
	Cdv	Mixed sequence of bedded volcanoclastic sandstone (usually quartz-feldspar-bearing), siltstone, mudstone, quartz-feldspar-phyrlic lava and lava breccia, minor feldspar-phyrlic lava and minor andesitic lavas and intrusives (Cdv).
	Cdv	Quartz-feldspar +/- biotite porphyry, mainly intrusive but may be partly extrusive (Cdv).
PALAEOZOIC LOWER CARBONIFEROUS	Cdv	Mainly quartz-feldspar +/- biotite-phyrlic lava (Cdv).
	Cdv	Dominantly sandstone and mudstone with some interbedded tuffaceous units (Cdv).
PALAEOZOIC LOWER CARBONIFEROUS	Cdv	Feldspar-hornblende-phyrlic andesite (Cdv).
	Cdv	

PERIOD	UNIT	DESCRIPTION
PROTEROZOIC MESOPROTEROZOIC	Ptpg	Lithologically undifferentiated, commonly garnetiferous, rocks of relatively high metamorphic grade, including massive schistose quartzite and fine- to coarse-grained metagranite (Ptpg).
	Ptpg	Fine- to coarse-grained, often thickly bedded pelitic, garnetiferous quartz-mica and micro-quartz schist, commonly containing phengite, biotite, chlorite, albite and chlorite. Relatively high metamorphic grade (Ptpg).
	Ptpg	Fine-grained, banded, pink and white quartzite with interbedded pelitic quartz-mica phyllite occasionally containing albite porphyroblasts. Intermediate metamorphic grade (Ptpg).
	Ptpg	Dominantly dark grey carbonaceous quartz-mica phyllite, sometimes porphyroblastic and occasionally containing albite, biotite, phengite, chlorite and minor garnet; fine-grained quartzite frequently present. Intermediate metamorphic grade (Ptpg).
PROTEROZOIC MESOPROTEROZOIC	Ptpg	Lithologically undifferentiated rocks of intermediate to low metamorphic grade (garnet minor to absent), including phyllite, fine-grained quartzite and andesitic schist (Ptpg).
	Ptpg	Dominantly grey to green carbonaceous pelitic quartz-phengite phyllite. Non-garnetiferous and relatively low metamorphic grade (Ptpg).
	Ptpg	Interbedded fine-grained phengitic quartzite, green phengite-quartz phyllite, and grey to green carbonaceous pelitic quartz-phengite phyllite. Non-garnetiferous and relatively low metamorphic grade (Ptpg).
	Ptpg	Dominantly quartzite (Ptpg).
PROTEROZOIC MESOPROTEROZOIC	Ptpg	Lithologically undifferentiated rocks of low metamorphic grade, including non-garnetiferous quartzite and phyllite (Ptpg). Fine-grained, thickly foliated phengitic quartzite and subordinate fine-grained massive quartzite. Non-garnetiferous and relatively low metamorphic grade (Ptpg).
	Ptpg	
	Ptpg	
	Ptpg	

PERIOD	UNIT	DESCRIPTION
PROTEROZOIC MESOPROTEROZOIC	Qfhp	Quartz-feldspar +/- biotite-porphyr, mostly intrusive (Qfhp).
	Qfhp	Granite, coarse-grained megacrystic pink to white with minor microgarnet (Dorset Granite) (Qfhp).
PROTEROZOIC MESOPROTEROZOIC	Qfhp	Mafic dykes, typically chlorite- altered (Qfhp).
	Qfhp	

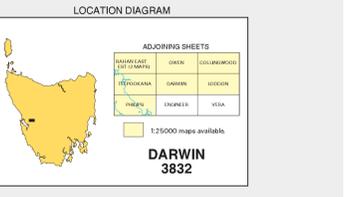
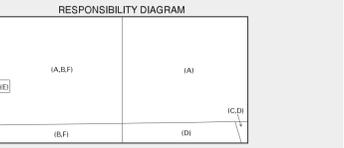
PERIOD	UNIT	DESCRIPTION
PROTEROZOIC MESOPROTEROZOIC	Qfhp	Amphibole-rich basaltic rock occurring as float in 'Slote Spur' area (Qfhp).
	Qfhp	

PERIOD	UNIT	DESCRIPTION
PROTEROZOIC MESOPROTEROZOIC	Qfhp	Amphibole bodies (Qfhp).
	Qfhp	

PERIOD	UNIT	DESCRIPTION
PROTEROZOIC MESOPROTEROZOIC	Qfhp	Quartz vein (qv)
	Qfhp	Barite vein (bv)

SYMBOL	DESCRIPTION
↗ ↘	Strike and dip of bedding facing known, right way up; overturned, vertical (facing indicated by single tic).
↗ ↘	Strike and dip of bedding, facing unknown - dipping vertical.
↗ ↘	Strike and dip of dominant joint set.
↗ ↘	Strike and dip of igneous banding - dipping vertical.
↗ ↘	Strike and dip of compositional layering.
↗ ↘	Strike and dip of cleavage, type and relative age unspecified - dipping vertical.
↗ ↘	Strike and dip of dominant cleavage, relative local age S2, however locally S1 (in quartzite units) or S3.
↗ ↘	Strike and dip of renormalisation cleavage.
↗ ↘	Trend and plunge of minor fold hingeline, unspecified relative age - reversed unspecified, symmetrical.
↗ ↘	Trend and plunge of location of unspecified type.
↗ ↘	Trend and plunge of location L2, formed by intersection of cleavages or foliations of relative local ages S1 and S2.
↗ ↘	Trend and plunge of columnar jointing.
•	Field station for adjacent readings on the map.
•	Notable small outcrop with rock unit indicated.
✕	Mineral deposit location - hardrock
✕	Mineral deposit location - alluvial
✕	Construction materials location - Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.
---	Geological boundary - position accurate or approximate
(white line)	Colour boundary
-----	Marine Ridge Crests
-----	Fault - unspecified type, position accurate or approximate
-----	Fault - unspecified type, inferred
-----	Fault - unspecified type, concealed
-----	Fault - position accurate or approximate, downthrown side indicated where known
-----	Thrust fault - position accurate or approximate, teeth on upper plate
-----	Aluvial surface trace of major antiform
-----	Aluvial surface trace of major synform

Compiled by D.C. Green and J.L. Eversard, 1998 from the following sources (see responsibility diagram):
A Geological Atlas 1:50,000 series, sheet 58 (8013N) Level 1987, Tasmania Department of Mines.
B Mt Read Volcanic Province, Map 13 1993, Tasmania Department of Mines.
C Duncan, D.M.P. 1974. Reconnaissance geology of the Freestone-Cape National Park. Papers & Proceedings of the Royal Society of Tasmania 107:191-195.
D Gray, A.H. 1962. The Precambrian Rocks in Serp, A.H. & Burke, A.J.S. (eds). The Geology of Tasmania. Journal of the Geological Society of Australia 10:107-145.
E Haffes, S., Vines, M. and Boyd, D. 1995. Exploration Licences 102/1897, 55/1889 and 12/1992 Annual Report April 1994 - March 1995. RDC Exploration Pty. Ltd. TCR 95-3721.
F Revised and updated by D.C. Green, 2003 as part of the Western Tasmanian Regional Mineral Program.



Profile for this map generated from digital data as at: 27-JUN-2006