

ROSEBERY

Scale: 1:25 000



PERIOD	UNIT	DESCRIPTION
QUATERNARY	Qhmm	Man-made deposits (Qhmm).
	Qha	Stream alluvium, swamp and marsh deposits (Qha).
	Qho	Older alluvium, marsh deposits and eluvium (Qho).
PLEISTOCENE	Opqg	Pleistocene glacial and glaciolacustrine deposits (Opqg).
	Opqf	Fluvioglacial and lacustrine deposits (Opqf).
TERTIARY	Tb	Basalt (Tb), including local occurrence of basaltite at 37°50'00"E, 53°56'00"S (Tb).
	U	Unconformity.
DEVONIAN	Sdb	Grey or greenish grey interbedded laminated mudstone, siltstone and minor fine-grained quartz sandstone (Sdb Shale) (Sdb).
	Sof	Generally pale grey and in part pink, commonly current-bedded, fine- to coarse-grained quartz sandstone with subordinate interbedded greenish grey siltstone (Purbeck Quartzite and corallites) (Sof).
	Sdof	Siltstone, mudstone and calcareous siltstone with limestone or quartz sandstone layers (undifferentiated corallite of Astor Creek siltstone, Keel Quartzite and Amber Slate) (Sdof).
	Sda	Limestone layer within unit Sda (Sda).
	Sdoo	Quartz sandstone layer within unit Sda (Sdoo).
PALEOZOIC	Sda	Generally pale grey and in part pink, commonly current-bedded, fine- to coarse-grained quartz sandstone with common pebbly conglomerate layers and/or minor interbedded pale green mudstone and siltstone (Crusty Quartzite and corallites) (Sda).
	Od	Dark grey carbonate rocks, calcareous mudstone, minor quartz sandstone and black clay weathering products in part fossiliferous. (Corallite of Gordon Group) (Od).

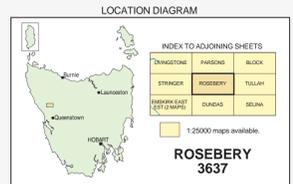
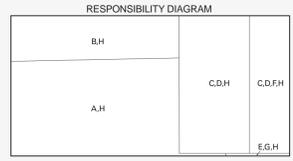
PERIOD	UNIT	DESCRIPTION
LATE CAMBRIAN	COms	Marine sandstone-siltstone-conglomerate sequence, including fossiliferous marine fossils in places. Includes parts of Rosebery Group and upper Musickian Group (COms).
	COmsc	Mainly siliceous conglomerate with interbedded sandstone (COmsc).
	COmsd	Polymict conglomerate, typically calcareous, with interbedded siltstone and sandstone, highly fossiliferous of Musickian River (COmsd).
	COmsq	Dolomitic mudstone, siltstone and sandstone, with interbedded volcanoclastic conglomerate and sandstone in places (COmsq).
MIDDLE CAMBRIAN	CDsv	Mainly volcanoclastic to polymict sandstone, breccia, siltstone, mudstone and conglomerate, typically quartz-feldspar-phyrlic. Marine fossils in places include part of Musickian Group and Pyrosoma Pyroclastics (Corallite of Lynch Group) (CDsv).
	CDsvq	Dominantly volcanoclastic sandstone, typically felsic, crystal-rich (CDsvq).
	CDsvd	Interbedded volcanoclastic sandstone, breccia, siltstone, mudstone and conglomerate includes parts of Rosebery hangingwall sequence and Lower Musickian Group (CDsvd).
	CDsvs	Shale-siltstone-mudstone sandstone units (includes Rosebery Shale) (CDsvs).
EARLY CAMBRIAN	CDv	Dominantly felsic volcanic and pyroclastic rocks, typically felsic, quartz-phyrlic and volcanoclastic rocks (CDv).
	CDvq	Feldspar-quartz porphyry, typically with spherulitic ground mass, intrusive to partly extrusive (CDvq).
	CDvd	Mainly felsic volcanic and pyroclastic rocks, dominantly felsic-quartz-phyrlic, including pumice-bearing units (CDvd).
	CDvs	Pumice-bearing volcanoclastic rocks. Usually with autolithic texture (CDvs).
PROTEROZOIC	CDv	Crystal-rich tuffaceous sandstone, bedded in places (CDv).
	CDvm	Fine-grained vitriclastic mudstone (CDvm).
	CDv	Felsic lava, typically felsic-quartz-phyrlic, rhyolitic to dacitic, rarely andesitic (CDv).
	CDv	Siltstone-sandstone-shale unit (CDv).

PERIOD	UNIT	DESCRIPTION
PALEOZOIC	Edv	Basaltic lithiclastic, siltstone and red green mudstone, with minor carbonate, tholeiitic basalt and minor intrusive rocks (corallite of Devonian-Warrior Association) (Edv).
	Edw	Areas of tholeiitic basalt lava (Edw).
MESOZOIC	Edv	Dominantly mafic volcanoclastic lithiclastic and siltstone and carbonate beds. (Crimson Creek Formation) (Edv).
	Edv	Interbedded volcanoclastic lithiclastic, siltstone and volcaniclastic tuff (Edv).
	Edv	Red chert and mudstone with minor conglomerate horizons (Edv).
	Edv	Shallow water quartz sandstone and siltstone with carbonate and chert beds (Edv).
	Edv	White well sorted quartz sandstone (Edv).
	Edv	Red to purple hemalitic siltstone (Edv).
	Edv	Felsic-mafic volcanoclastic lithiclastic and siltstone (Edv).
	Edv	Possible stratigraphic horizons of sheared carbonaceous siltstone with phacoids of broken sandstone beds forming tectonic intrusions into Edv and Edv.
	Edv	Dominantly laminated grey siliceous siltstone with minor quartz sandstone and conglomerate horizons (Edv).
	Edv	Dolomite horizons indicated (Edv).
CENOZOIC	Edv	Black mudstone, siltstone and minor sandstone (dominated by soft sediment deformation) (Edv).
	Edv	Dominantly quartz sandstone with laminated grey siltstone and mudstone, and local pebbly sandstone and conglomerate, including basal sequence with carbonate beds, thin tuffaceous horizons and conglomerate beds (Edv).
CENOZOIC	Edv	Felsic-mafic volcanoclastic lithiclastic and siltstone intercalations in unit Edv (Edv).
	Edv	Unconformity.
CENOZOIC	Edv	Undifferentiated Danah Formation, dominantly quartzite turbidites (Edv). Thinly bedded dark grey, clay to locally massive felsic siltstone and mudstone (Edv). Mafic (Edv).
	Edv	Unconformity.

PERIOD	UNIT	DESCRIPTION
MESOZOIC	Jd	Dolerite (Jd).
	Qpqp	Quartz porphyry (Qpqp).
DEVONIAN	Qpam	Red and/or white massive quartz bodies (Qpam).
	Qpav	Basaltic dykes, typically chert altered (Qpav).
MIDDLE CAMBRIAN	Edv	Feldspar-quartz porphyry, commonly spherulitic (Edv).
	Edv	Low Ti-tholeiitic and boninitic lavas (Edv).
PALEOZOIC	Egq	Massive and multiple-intrusive two-pyroxene, granular textured gabbro (Egq).
	Egfc	Fine to coarse-grained gabbro (Egfc).
EARLY CAMBRIAN	Edv	Serpentinized layered peridotite and pyroxenite (Edv).
	Edv	Dominantly serpentinized layered dunite and harzburgite (Edv).
CENOZOIC	Edv	Fine to coarse-grained mafic gabbro (Edv).
	Edv	Massive serpentinite (Edv).

SYMBOL	DESCRIPTION
↘ ↙	Strike and dip of bedding, facing known - right way up overturned, vertical, facing indicated by single tick.
↘ ↙	Strike and dip of bedding, facing unknown - dipping vertical.
↘ ↙	Strike and dip of bedding, facing unknown - dipping vertical.
↘ ↙	Strike and dip of igneous banding - dipping vertical.
↘ ↙	Strike and dip of cleavage, type and relative age unspecified - dipping vertical.
↘ ↙	Strike of vertical crenulation cleavage.
↘ ↙	Strike and dip of cleavage, relative local age ST.
↘ ↙	Trend and plunge of hinges of minor folds with dip and dip direction of axial surface indicated; vertical axial surface; horizontal hinges.
↘ ↙	Trend and plunge of hinges of minor fold, relative local age F1, F2, F3.
↘ ↙	Strike and dip of outcrop-scale fault; with trend and plunge of slickensides indicated; movement sense unspecified.
●	Fossil location.
○	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.

Compiled by D.B. Seymour, B.Sc. (Hons), Ph.D. and M.P. MacLennaghan, B.Sc. (Hons), Ph.D., 1997 from the following sources (see responsibility diagram):
A. BROWN, A.V., FINDLAY, R.H., GOSCOMBE, B.D., MACLENNAGHAN, M.P. and SEYMOUR, D.B., 1984. Zeehan Geological Area 1:50,000 series sheet 50 (7914S), Department of Mines, Tasmania.
B. TURNER, N.J., BROWN, A.V., MACLENNAGHAN, M.P. and SCOTERINO, I., 1991. Corvax. Geological Area 1:50,000 series sheet 43 (7914N), Department of Mines, Tasmania.
C. CORBETT, K.D. and DANIELL, A.W., 1988. Geology of the Rosebery - Mt Read area. Map 2. Mt Read Volcanic Project. Department of Mines, Tasmania.
D. GREEN, G.R., 1984. The Geological setting and formation of the Rosebery volcanic-hosted massive sulphide ore body, Tasmania. Ph. D. thesis, University of Tasmania.
E. CORBETT, K.D., 1986. Map 3. Geology of the Henry River - Mt Read area. Mt Read Volcanic Project. Department of Mines, Tasmania.
G. Unpublished data, Peninsular Exploration.
Updated by:
H. K.D. Corbett, 2003 as part of the Western Tasmanian Regional Minerals Program.



REFERENCE THIS MAP AS:
SEYMOUR, D.B. and MACLENNAGHAN, M.P. (compilers) 2003. Digital Geological Atlas 1:25,000 Series, Sheet 3637 Rosebery. Mineral Resources Tasmania.
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GDAS4 - MGA Zone 55. Contour Interval: 20 metres.
GDA
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