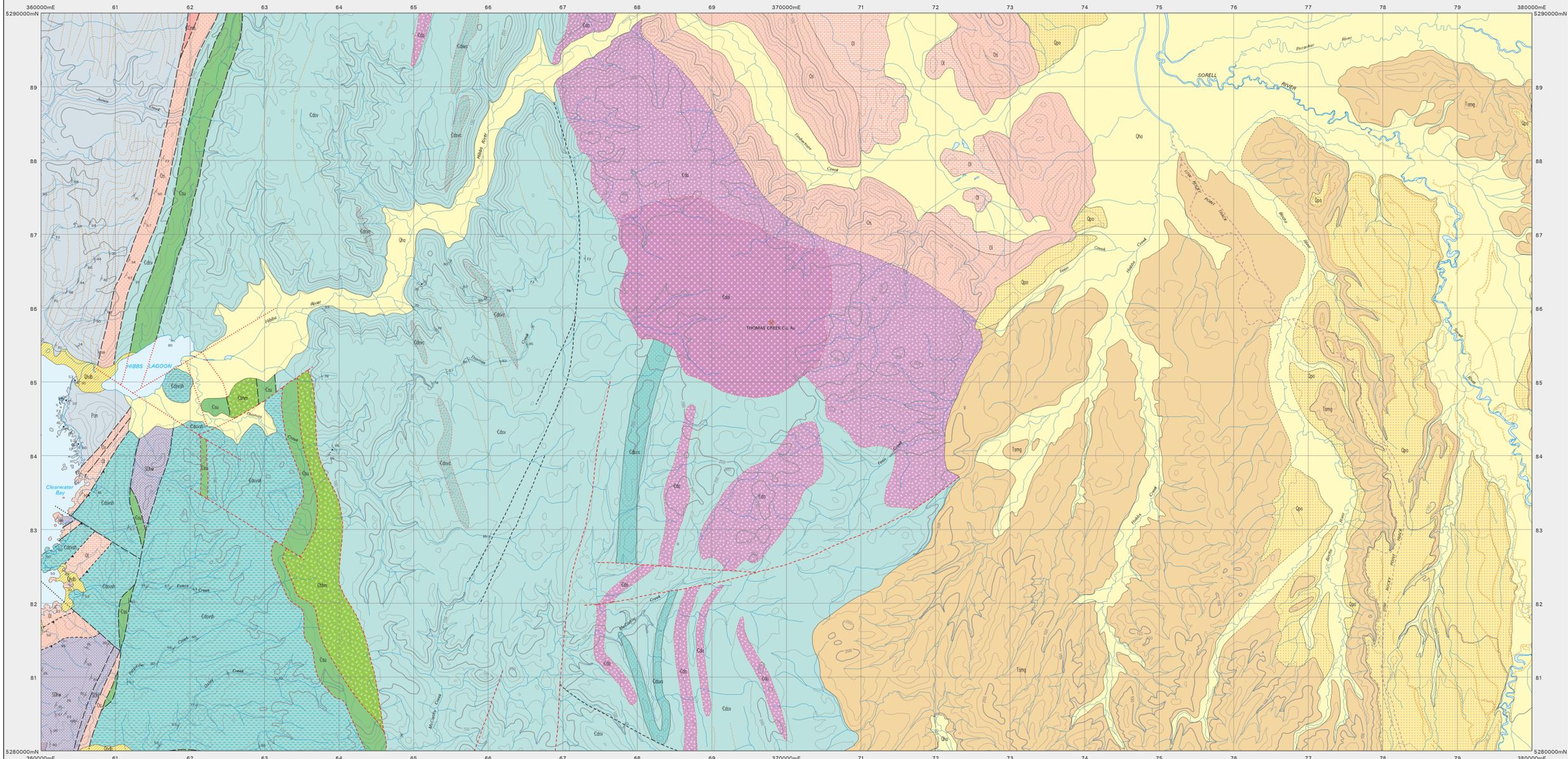


HIBBS EAST

Scale: 1:25 000



COMPOSITE LEGEND FOR HIBBS EAST AND HIBBS WEST

PERIOD	UNIT	DESCRIPTION
CENOZOIC	Qhds	Modern shore face and associated aeolian dune sand (Qhds).
	Qhs	Stream alluvium, marsh and swamp deposits (Qhs).
	Qpo	Older alluvial gravels, mainly on raised terraces developed on Tertiary deposits, and showing a probational relationship to younger alluvium (Qpo).
TERTIARY	Tsmg	Semi-consolidated interbedded sands, pebble-cobble gravels (up to boulder grade in some places), silts and clays, some horizons contain coalified wood and rare amber (Tsmg).
	Ph	Marine sequence of grey, poorly sorted polymict cobble-pebble lithic conglomerate, pebbly lithic sandstone, siltstone, calcareous mudstone and limestone, with abundant marine macrofossils in some beds (Ph). (Correlate of lower Parmenter Supergroup).
PALAEOZOIC	3Dhw	Pale-weathering, cross-bedded, well-sorted marine quartz sandstone with minor siltstone and conglomerate; fossiliferous bed near top contains brachiopods, tentaculids and orthoconic cephalopods (3Dhw). (Whitehorse Beach Sandstone).
	3Dhr	Unfossiliferous redbed sequence of predominantly fine-grained lithic sandstone with subordinate coarse lithic sandstone and lithic conglomerate, arranged in thin-upward sequences (3Dhr). (Red Reef Cliff Siltstone).
	3Dh	Interbedded fossiliferous marine limestone and calcareous mudstone, with abundant coral heads up to 0.5m in diameter (3Dh). (Point Hibbs Formation).
		Possible disconformity.

PERIOD	UNIT	DESCRIPTION
LATE CAMBRIAN	Os	Dark grey limestone, dolomite, calcareous mudstone, minor quartz sandstone and black clay weathering products; in part fossiliferous (Os).
	COms	Marine mudstone-siltstone-sandstone sequence, grey to reddish-grey, with Late Cambrian fossils at 364500mE, 5298500mN north of this map sheet (COms).
MIDDLE CAMBRIAN	Cdsv	Mixed sequence of volcano-sedimentary, sedimentary and volcanic rocks, ranging from felsic to andesitic in composition. May include non-volcanic sedimentary rocks (Cdsv).
	Cda	Andesitic lavas and breccias, with volcanoclastic units and possible intrusives. Typically plagioclase-pyroxene-phyric, includes some units mapped from aeromagnetic signature (Cda).
	Cdsvs	Dominantly volcanoclastic conglomerate-sandstone unit, typically felsic, with weakly positive magnetic character (Cdsvs).
	Cdsvh	Ridge-forming, probable sandstone units, typically non-magnetic (Cdsvh).
EARLY CAMBRIAN	CDhm	Dominantly siltstone-mudstone sequence, grey to greenish-grey, thin-bedded, with subordinate thin graded turbidite sandstone units (CDhm).
	Cdu	Inferred erosional surface.
	Cdu	Dominantly intermediate volcanic rocks, including probable high-Mg andesites, and gabbro. Probably structurally emplaced (Cdu).
	Csu	Undifferentiated, generally coarse-grained ultramafic rocks, gabbro and sheared serpentinite (Csu).
	Pon	Metamorphosed interbedded quartzite and mudstone/siltstone (Pon). Correlate of Oamb Formation.

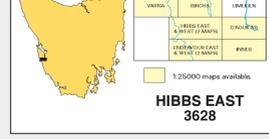
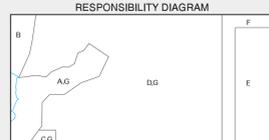
PERIOD	UNIT	DESCRIPTION
MESOZOIC	Jd	Dolerite (Jd).
	Epo	Andesitic intrusive rocks, including plagioclase-pyroxene-phyric diorite and granodiorite (Epo).
PALAEOZOIC	Cda	Andesitic lavas and breccias and possible intrusives (Cda).
	Cgd	Gabbro dykes, intrusive bodies and fault bounded units (Cgd).
	CDhm	Dominantly intermediate volcanic rocks and gabbro, including probable high-Mg andesites (CDhm).
	Csu	Undifferentiated, generally coarse-grained ultramafic rocks, gabbro and sheared serpentinite (Csu).

SYMBOL	DESCRIPTION
—	Geological boundary - position accurate or approximate.
- - -	Geological boundary - inferred.
- · - · -	Geological boundary inferred from airborne magnetic and/or radiometric data.
- · - · -	Fault - unspecified type, position accurate or approximate.
- · - · -	Fault - unspecified type, inferred.
- · - · -	Fault - unspecified type, concealed.
- · - · -	Fault - unspecified type, inferred from airborne magnetic and/or radiometric data.
- · - · -	Fault - unspecified type, concealed, inferred from airborne magnetic and/or radiometric data.
- · - · -	Thrust fault, position accurate or approximate, teeth on upper plate.
- · - · -	Thrust fault, inferred, teeth on upper plate.
- · - · -	Thrust fault, concealed, teeth on upper plate.
- · - · -	Lithological trend line.
(white line)	Limit of mapping of sub-unit within undifferentiated rock unit.

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 cleavage, type and relative age unspecified.
↗	Trend and plunge of hinge of minor fold, unspecified relative age, with dip and dip direction of axial surface indicated, vertical axial surface.
•	Field station for adjacent reading(s) on map.
⊠	Mineral deposit location - hardrock - Data derived from Mineral Resources Tasmania, EIP/01575 data base. Data point position has not been verified in every case.

Compiled by D.B. Seymour, B.Sc. (Hons), Ph.D. and D. Green (2001) from the following sources (see Responsibility Diagram):
 A. Unpublished mapping by D.B. Seymour, B.Sc. (Hons.), Ph.D., 1988-1990.
 B. Unpublished mapping by D.B. Seymour, B.Sc. (Hons.), Ph.D., 1988-1990.
 C. Unpublished mapping by M.P. McClenaghan, B.Sc. (Hons.), Ph.D., 1980.
 D. New interpretation of airborne magnetic and radiometric data and aerial photographs, with minor additional information from BHP Co. Ltd. Exploration Dept., 1989. 1 Mile Geological Map - Point Hibbs (Double Cove & Hibbs Falls), E.I. 13/1855 Southwest Tasmania.
 E. Bradbury, J., Pemberton, J., Vicari, M.J. & Corbett, K.D. 1992. Geology of the D'Almeida Range area, Mt Read Volcanic Project, Map 12 (Hibbs East only).
 F. 1:250000 Geological series, Southwest Tasmania (Hibbs East only).
 G. Updated by K.D. Corbett, 2004 as part of the Western Tasmanian Regional Minerals Program.

Digital base information from Information and Land Services Division, Department of Primary Industries, Water and Environment.
 Map produced by the Data Management Branch of Mineral Resources, Tasmania using G.I.S. software.
 ACT/RS - AMIS Zone 55. Contour Interval: 20 metres.



While every care has been taken in the preparation of this data, no warranty is given as to the correctness of the information and no liability is accepted for any statement or opinion or for any error or omission. No reader should act in reliance on the basis of any material contained herein. Readers should consult professional advisers. As a result the Crown in right of the State of Tasmania and its employees, contractors and agents expressly disclaim all and any liability (including all liability from or attributable to any negligent or wrongful act or omission) in any person whatsoever in respect of anything done or omitted to be done by any such person in reliance whether in whole or in part upon any of the material in this data. Crown copyright reserved.