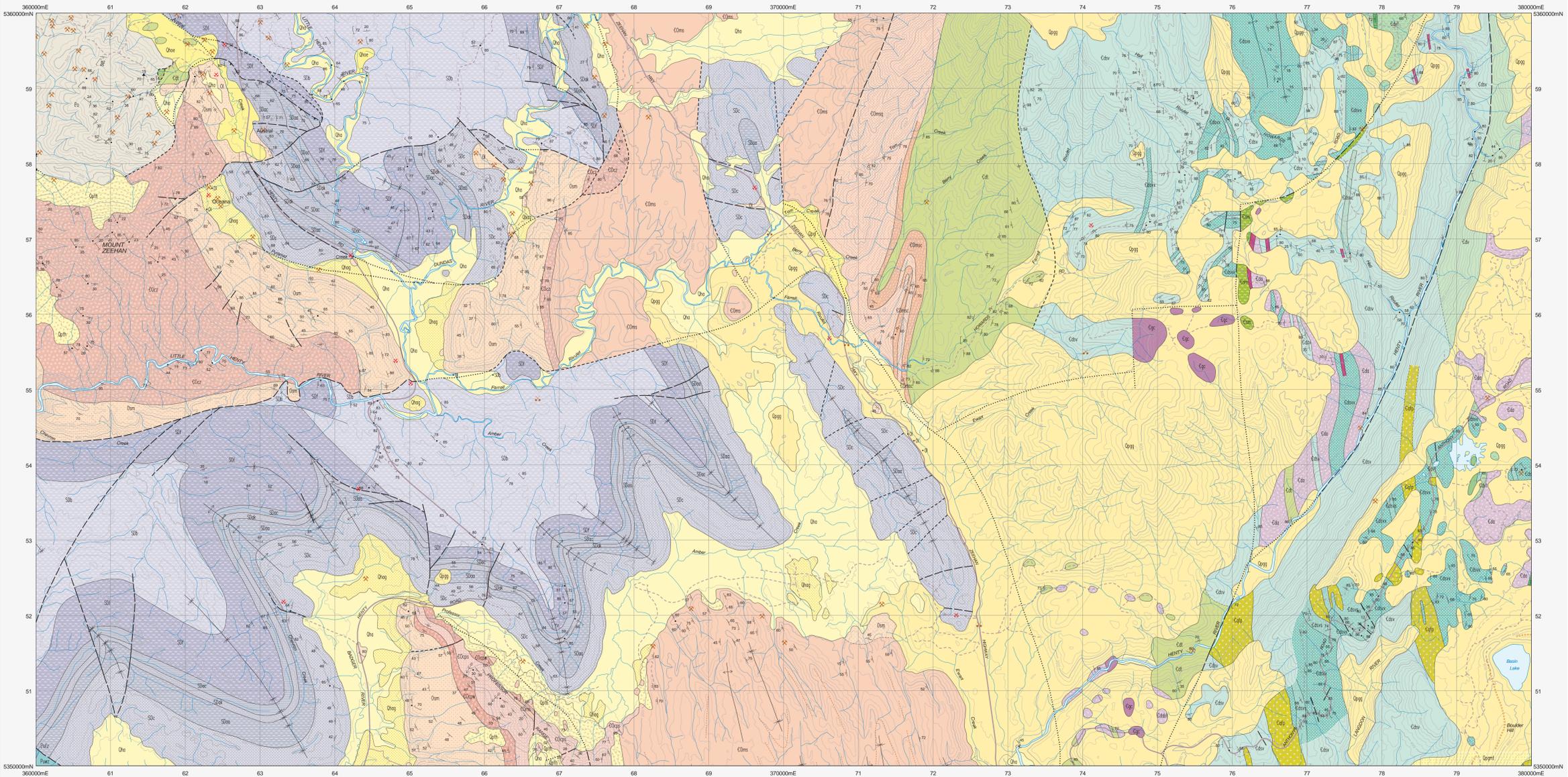


OCEANA

Scale: 1:25 000



UNIT	DESCRIPTION
HOLOCENE	
Qha	Stream alluvium, swamp and marsh deposits (Qha). Alluvial gravel deposits (Qhg).
Qghg	Talus of unsorted type (Qgh).
Qghn	Older alluvium, marsh deposits and alluvium (Qgha).
Qghm	Mainly fill deposits - unweathered or slightly weathered (Deposits of Margaret Catchment - 1000-30000 years before present) (Qghm).
Qghp	Pleistocene glacial deposits (Qghp).
Qgpi	Fluvio-glacial and lacustrine deposits (Qgpi).
PERMIAN	
Puz	Dark grey, poorly sorted, often bioturbated but essentially unfossiliferous siltstone and mudstone (Puz).
Puw	Poorly sorted, fossiliferous pebbly conglomerate sandstone (Puw).
DEVONIAN	
Sdb	Unconformity: Grey or greenish grey interbedded laminated mudstone, siltstone and minor fine-grained quartz sandstone (Bel Shale and correlatives) (Sdb).
Sdf	Generally pale grey, fine-grained quartz sandstone with subordinate interbedded greenish grey siltstone (Florence Quartzite) (Sdf).
Sdgc	Greenish grey and bluish grey laminated siltstone and minor interbedded fine-grained quartz sandstone (Austral Creek Siltstone and correlatives) (Sdgc).
Sdk	Pale grey to white generally fine-grained quartz sandstone (Free Quartzite and correlatives) (Sdk).
Sdqa	Siltstone and shale (Amber Stone and correlatives) (Sdqa).
Sdsc	Generally pale grey and in part pink, commonly current-bedded, fine- to coarse-grained quartz sandstone with common pebble conglomerate layers and minor interbedded pale green mudstone and siltstone (Cobby Quartzite and correlatives) (Sdsc).
PALEOZOIC	
Oi	Dark grey carbonate rocks, calcareous mudstone, minor quartz sandstone and black clay weathering products, in part fossiliferous (correlate of Gordon Limestone) (Oi).
Oim	Grey to pink, commonly cross-bedded quartz sandstone coarse and pebbly towards base (Hobart Sandstone) (Oim).
Edce	Highly massive to well-bedded, silicified, mostly cobble-boulder conglomerate (Professor Range Sandstone, siltstone and red mudstone (Mt. Zeehan Conglomerate), Conglomerate (Lassiter - Terrigenous quartz sandstone with quartzite 20% vein quartz 10%, chert 2% (COm), quartzite 20%, vein quartz 10%, chert 2% (COm).
COcp	White massive silicified pebble-cobble conglomerate on Professor Range. Clast composition: quartzite (84%), vein quartz (15%), chert (<4%) (COcp).
COcpa	Pink interbedded quartz sandstone, pebbly sandstone and sandy pebble-cobble conglomerate on Professor Range. Clast composition: quartzite (66%), chert (24%), vein quartz (7%), quartz sandstone (3%) (COcpa).
COms	Marine sandstone-siltstone-conglomerate sequence, silicified to polymict, marine fossils in places includes corals of upper Juvets Group and Rosebery Group (COms).
COmsc	Pebble to boulder grade conglomerate with interbedded pebbly sandstone and siltstone (Mary Conglomerate) (COmsc).
COmsq	Miocene quartzite sandstone-siltstone-conglomerate sequence (COmsq).
COmsa	Pebble to boulder grade conglomerate units, mainly silicified (COmsa).

UNIT	DESCRIPTION
PALEOZOIC	
Cab	Mainly volcanoclastic to polymict sandstone, breccia, siltstone, mudstone and conglomerate, typically quartz-feldspar-phyric. Marine fossils in places. Minor andesitic to basaltic lavas in places (correlates of Tyndal Group).
Cabst	Andesitic to basaltic lavas and breccias (Cabst).
PROTEROZOIC	
CDsv	Interbedded volcanoclastic sandstone, breccia, siltstone, mudstone and conglomerate with minor andesitic to basaltic volcanics and intrusives - effusive porphyry bodies, includes sequences in Howard Road area (White Spur Formation), Henry Road, Wedge and Longson River - Yolande River area (CDsv).
CDsp	Quartz-feldspar +/- biotite porphyry, mainly intrusive but may be partly extrusive (CDsp).
CDsvx	Mainly volcanoclastic sandstone and breccia and tuffaceous units, typically crystal-rich, with minor siltstone and mudstone (CDsvx).
CDsvs	Interbedded siltstone-sandstone-mudstone units (CDsvs).
CDsvc	Dominantly silicified conglomerate and sandstone (CDsvc).
CDa	Andesitic to basaltic volcanics (CDa).
NEOPROTEROZOIC	
CDv	Dominantly feldspar-phyric volcanic and volcanoclastic rocks, with some andesitic to basaltic volcanics (CDv).
CDvt	Mainly felsic volcanic and pyroclastic rocks (CDvt).
CDvl	Felsic lava, typically feldspar +/- quartz-phyric, rhyolitic to dacitic (CDvl).
CDvs	Shale-siltstone-sandstone units (CDvs).
CDa	Andesitic volcanics, mostly lavas, breccias and possible intrusives (Anthony Road Andesite) (CDa).
OWEN GROUP AND CORRELATES	
FO	Undifferentiated Owen Formation. Dominantly quartzite turbidites (FO).

UNIT	DESCRIPTION
INTRUSIVE ROCKS	
CEp	Quartz-feldspar +/- biotite porphyry, mainly intrusive but may be partly extrusive (CEp).
CEg	Gabbro (CEg).
CEbc	Basaltic dykes, typically chlorite-tered (CEbc).
CEs	Mainly massive serpentinite with minor ultramafic rocks (CEs).
CEv	Undifferentiated serpentinitised layered pyroxene, peridotite, gabbro and basalt (CEv).

SYMBOL	DESCRIPTION
—	Geological boundary - position accurate or approximate.
- - -	Geological boundary - inferred.
— · — ·	Marine ridge crest
— · — · — ·	Fault - unspecified type, position accurate or approximate, downthrown side indicated where known.
- - - - -	Fault - unspecified type, inferred.
— · — · — ·	Fault - unspecified type, concealed.
— · — · — ·	Thrust fault (teeth on upper plate) - position accurate or approximate.
— · — · — ·	Thrust fault (teeth on upper plate) - concealed.
— · — · — ·	Axial trace of major synform.
— · — · — ·	Axial trace of major synform.
— · — · — ·	Lithological trend line, including bedding trace interpreted from aerial photographs.
— · — · — ·	Limit of mapping of sub-unit within undifferentiated rock units.

Compiled by M.P. McLennaghan, 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 SEMAJUR, D.B. 1984. Zeehan Geological sheet 1:25 000 series, sheet 50 (7945) 1984. Department of Mines Tasmania.

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C. CORBETT et al. 1989. 1:25 000 Geological Series, Queensland. Tasmanian Department of Mines.

D. TEAR, S. 2002. Annual report for EL02001 (Professor Creek) for the period 22 June 2001 to 22 June 2002. Northern Pacific Pty Ltd. TCR 02-4757.

Unpublished:

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RESPONSIBILITY DIAGRAM

A.E	B.E
A.D	B.C

LOCATION DIAGRAM

STATE	WESTERN DISTRICT	SOUTHERN DISTRICT	EASTERN DISTRICT
TASMANIA	THRELL	OCEANA	TYNDALL
VICTORIA	MILLMERRA	PROFESSOR	OWEN

INDEX TO ADJOINING SHEETS

1:25 000 maps available.

OCEANA 3635

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