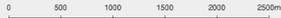
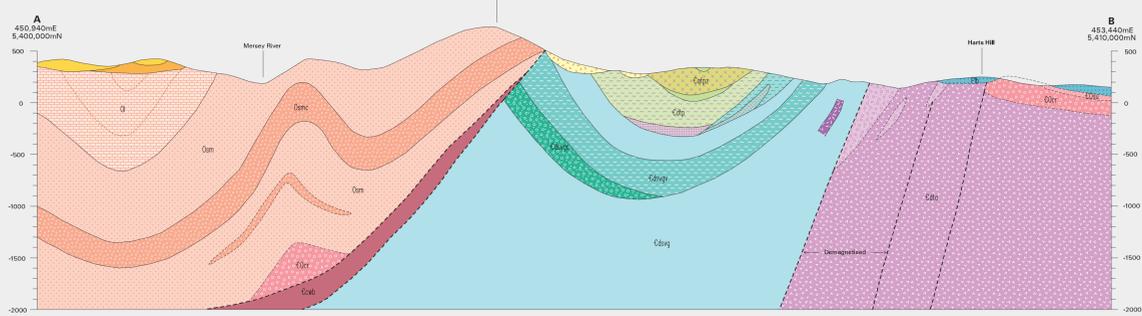
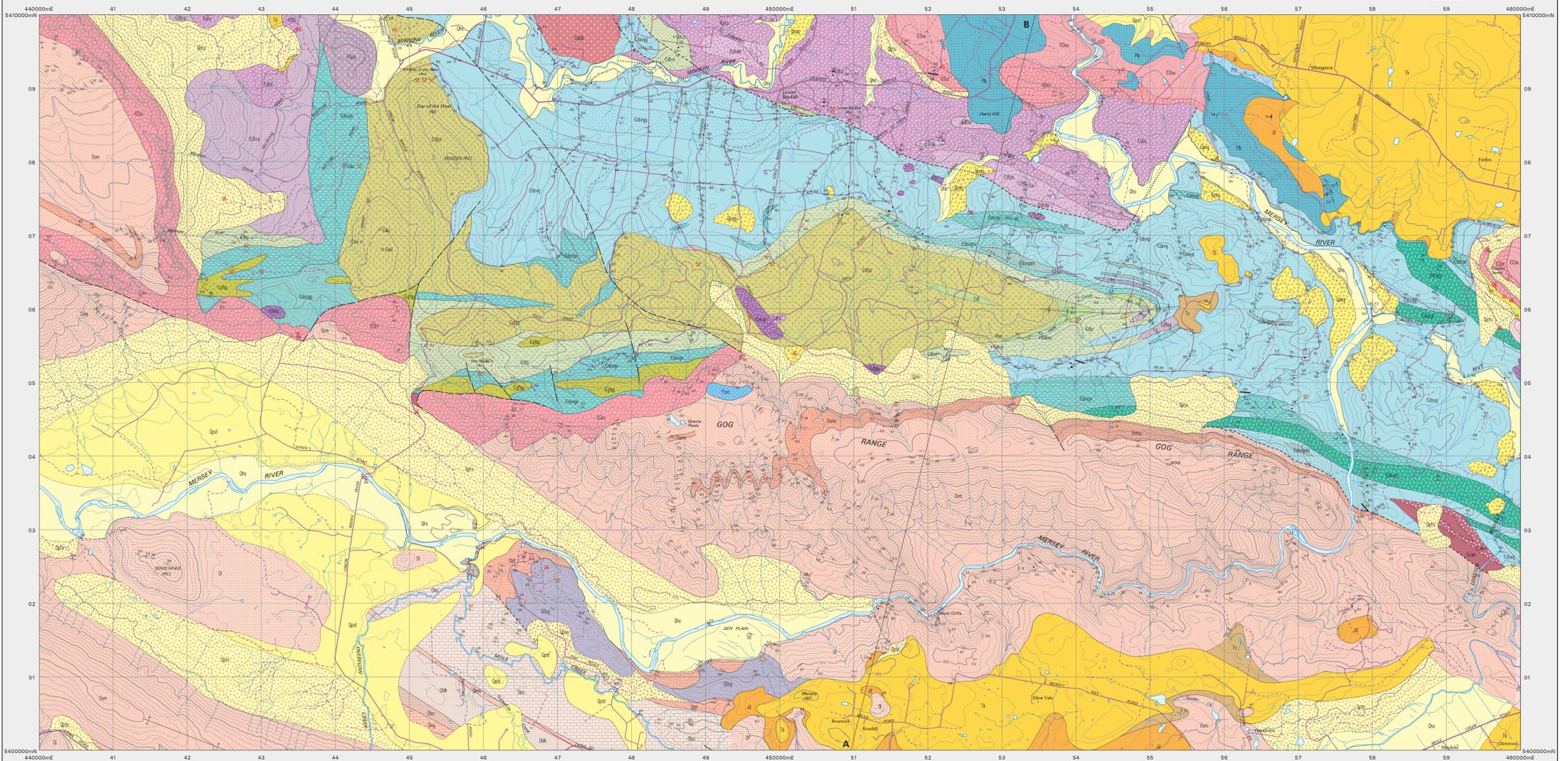


GOG

Scale: 1:25 000



MINERAL RESOURCES TASMANIA
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES
GOG, SHEET 4440



PERIOD	UNIT	DESCRIPTION
QUATERNARY	Qns	Stream alluvium, marsh and swamp deposits (Qns).
	Qm	Man disturbed ground (Qm).
PLEISTOCENE	Qpl	Talus, fill and scree of probable Pleistocene age (Qpl); quartz sandstone and conglomerate (also derived from Owen Group corrieites (Qop)), scoria, tuff and columnar derived from unit Slog (Qpl); tuff derived from Tertiary basalt (Qpl).
	Qpt	Till, tillu and alluvial gravels (Qpt).
TERTIARY	Ts	Older alluvium, dominantly of river terraces, dominantly cobble-boulder gravel (Qol). Erosional surface.
	Tb	Basalt (Tb). White-weathering, non-marine siliceous gravel, quartz sand and silt (Ts).
LATE CAMBRIAN	Tsk	Erosional surface.
	Tsk	Coarse-grained pebbly quartz sandstone and conglomerate with angular pink sandstone clasts (Tsk).
EARLY CAMBRIAN	Ph	Quartz sandstone and muddy siltstone; possible corrieite of Mersey Cool Measures (Ph).
	Pb	Felsic and basaltic mudstone and massive mudstone (Pb).
PALEOZOIC	Slog	Red grey, fine-grained quartz sandstone (corrieite of Orelly Quartzite) (Slog). Dark grey limestone, dolomite, calcareous mudstone and minor quartz sandstone, in part fossiliferous (corrieite of Gordon Group) (Sg). Curving tabularite, sparsely fossiliferous micrite and minor black shale (Orelly Formation) (Slog).
	Osk	Fossiliferous red to grey quartz siltstone, black shale, calcarenite and minor micrite (Mole Creek Formation) (Osk).
	Dsk	Interbedded micrite and dolomitic micrite. Nodular chert and biturbation common (Dogs Head Formation) (Dsk).
	Dsk	Interbedded micrite and slightly dolomitic micrite. Nodular chert and biturbation common (Dogs Head Formation) (Dsk).
	Dsk	Nodular micrite (limestone) and biturbation pyritic mudstone. Sparsely fossiliferous (Lipocoe Formation) (Dsk).
	Dsk	Dolomitic calcarenite and minor dolomitic micrite and calcarenite (Standard Hill Formation) (Dsk).
	Dsk	Red grey to pink, commonly cross-bedded quartz sandstone, coarse and pebbly towards base with tabular trace fossils in upper sequences (corrieite of Mole Sandstone) (Dsk).
	Dsk	Dominantly pebble-cobble to granule-pebble siliceous conglomerate with interbedded coarse sandstone with abundant pebble horizons (Dsk).
	Dsk	Dominantly pebble-cobble to granule-pebble siliceous conglomerate with interbedded coarse sandstone with abundant pebble horizons (Dsk).
	Dsk	Angular unconformity.

PERIOD	UNIT	DESCRIPTION
PALEOZOIC	Cdsk	Felsic to intermediate volcanoclastic, volcanic and sedimentary rocks. Late middle Cambrian facies in places (Trent Group and corrieite) (Cdsk).
	Cdsk	Quartz-feldspar-pyroxene/charnockitic phytic porphyry. Intrusive to locally extrusive (Cdsk).
PALEOZOIC	Cdsk	Andesitic lava and associated volcanoclastic rocks, typically plagioclase-pyroxene phytic. Minor amphibole quartz diorite flow, lower block andesite (Cochranite) (Cdsk).
	Cdsk	Andesitic volcanoclastic sandstone and conglomerate with interbedded black siltstone and minor dolomite to mylonitic volcanoclastic sedimentary rocks, includes local peperitic andesite lava and resedimented andesitic hyaloclastite breccia (Cdsk).
PALEOZOIC	Cdsk	Pumice breccia of andesitic derivation (Cdsk).
	Cdsk	Andesitic lava breccia (Cdsk).
PALEOZOIC	Cdsk	Dominantly feldspar-quartz-pyroxene phytic crystal-rich volcanoclastic sandstone derived from andesitic and rhyolitic sources with interbeds of phytic and hummocky volcanoclastic sandstone and finely sandal micaceous siltstone (Cdsk).
	Cdsk	Andesitic volcanoclastic conglomerate and sandstone. Typically crystal-rich with plagioclase-quartz-pyroxene-biotite crystals. Abundant andesite lava and minor quartzite clasts (Cdsk).
PALEOZOIC	Cdsk	Pumice-rich and short-rich volcanoclastic sandstone, conglomerate and siltstone. Typically rich in quartz-feldspar crystals. Locally interbedded with pyroxene phytic volcanoclastic sandstone (Cdsk).
	Cdsk	Marine volcano-sedimentary and sedimentary sequences of sandstone, siltstone, mudstone conglomerate and breccia with some felsic to andesitic volcanic rocks. Commonly non-siliceous sandstone and siltstone, typically siliceous-micaceous, massive to thinly bedded (Cdsk).
PALEOZOIC	Cdsk	Dominantly siliceous conglomerate and sandstone, typically rich in quartzite clasts (Cdsk).
	Cdsk	Coarse-grained polymict conglomerate with clasts of basalt, chert, siltstone and limestone (Orelly Formation) (Cdsk).
PALEOZOIC	Cdsk	Polymict sandstone of mixed felsic volcanic and metamorphic derivation (Cdsk).
	Cdsk	Dominantly pale-weathering fine-grained vitric mudstone, typically short-rich (Cdsk).
PALEOZOIC	Cdsk	Quartz-feldspar phytic granitic volcanoclastic sandstone and siltstone with minor rhyolite lava (Cdsk).
	Cdsk	Dacitic lava, typically plagioclase-phyric, may include some shallow intrusives (Cdsk).
PALEOZOIC	Cdsk	Interbedded siliceous siltstone, sandstone and mudstone (Cdsk).
	Cdsk	Pebbled to massive fine- to medium-grained augite bearing tholeiitic basalt (probable corrieite of Mole Sandstone) (Cdsk).
PALEOZOIC	Cdsk	Basaltic breccia and volcanoclastic sandstone (Cdsk).
	Cdsk	Basaltic breccia and volcanoclastic sandstone (Cdsk).

PERIOD	UNIT	DESCRIPTION
PALEOZOIC	Id	Diorite (Id).
	Cdsk	Andesitic monzonitic intrusives with biotite, hornblende, pyroxene, feldspar and quartz, typically massive, pink to brown weathering. Includes locally granitic and rhyolite flows (Cdsk).
PALEOZOIC	Cdsk	Quartz-feldspar-pyroxene/charnockitic phytic porphyry. Intrusive to locally extrusive. Zircon radiometric (U-Pb age 488.4 ± 2.6 Ma from 445000mE, 5408000mN) (Cdsk).
	Cdsk	Plagioclase-cyanopyroxene-quartz porphyry, typically massive to brecciated (Cdsk).
PALEOZOIC	Cdsk	Quartz-feldspar-biotite porphyry, mainly intrusive but may be partly extrusive (Cdsk).
	Cdsk	Intrusive bodies of dioritic rock (plagioclase-amphibole-mirror quartz-epidote monzonite) (plagioclase-biotite-phyric) and quartz gabbro-norite (Cdsk).
PALEOZOIC	Cdsk	Andesitic intrusives rocks, typically with plagioclase and pyroxene phenocrysts. May include dioritic and granitic types (Cdsk).
	Cdsk	Dacitic lava, typically plagioclase-phyric, may include some shallow intrusives (Cdsk).
PALEOZOIC	Cdsk	Pebbled to massive fine- to medium-grained augite bearing tholeiitic basalt (probable corrieite of Mole Sandstone) (Cdsk).
	Cdsk	Basaltic breccia and volcanoclastic sandstone (Cdsk).

- Strike and dip of bedding, facing known - dipping, overturned vertical with facing indicated by single tic.
- Strike and dip of bedding, facing unknown - dipping, vertical.
- Strike and dip of compositional layering.
- Generated paleocurrent direction, showing sense of movement.
- Strike and dip of cleavage, type and relative age unspecified - dipping, vertical.
- Strike and dip of penetrative cleavage - dipping, vertical.
- Strike and dip of crenulation cleavage - dipping, vertical.
- Trend and plunge of hinge of minor fold, relative age unspecified.
- Strike and dip of outcrop-scale fault, unspecified type and relative age.
- Strike and dip of normal joint set.
- Strike and dip of vein, composition specified by RCODE in Point Attribute Table.
- Field station for adjacent readings on the map.
- Notable small outcrop with rock unit indicated.
- Mineral deposit location - hardrock. Data derived from Mineral Resources Tasmania (MRT) DEPOSIT data base. Data point position has not been verified in every case.
- Mineral deposit location - alluvial.
- Construction materials location - Data derived from Mineral Resources Tasmania (MRT) CONSTRUCTION data base. Data point position has not been verified in every case.

Compiled by M.P. MacLennan, D.C. Green, D.B. Seymour and A.V. Brown (2008) from the following sources:
 Data: MacLennan, M.P., Green, D.C., Seymour, D.B., Brown, A.V. and Vickary, M. (2008). Digital Geological Atlas 1:25000 series, sheet 4440 GOG. Mineral Resources Tasmania.
 A: New 1:25 000 scale mapping by M.P. MacLennan, 1988-2005.
 B: New 1:25 000 scale mapping by D.C. Green, 1995-1999.
 C: New 1:25 000 scale mapping by D.C. Green, 1995-1999; D.B. Seymour (1989-2000) and A.V. Brown (1993).

Updated by:
 D: Burnett, C., Banks, M., Clota, G. and Seymour, D.B. 1989 Lithostratigraphy of the Collierion Group. Geoscience Australia, Canberra.
 E: Modified and updated by K.D. Corbett, 2004 as part of the Western Tasmania Regional Minerals Program with additional data from:
 F: Callaghan, T. 2003. Annual Report - GOG EL 12/2001, Sept 2001 - Sept 2002. Unpublished report. Mining Unit, Geoscience Australia, Canberra.
 G: Vicos, M.J. and Jackson, S. 1993 EL 15/1992 - Mole. Annual Report August 1992 - 1993. RUC. Exploration (TCR 93-3486).
 H: Vicos, M.J. 2007. Reinterpretation and additional compilation as part of the Sea Explore Project.

RESPONSIBILITY DIAGRAM

LOCATION DIAGRAM

ADJOINING SHEETS

4430	4440	4450
4435	4440	4445
4430	4440	4450

1:25000 maps available

GOG 4440

Profile for this map generated from digital data as at: 14-MAY-2009