Department of State Growth
MINERAL RESOURCES TASMANIA

DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
MONTGOMERY, SHEET 3626

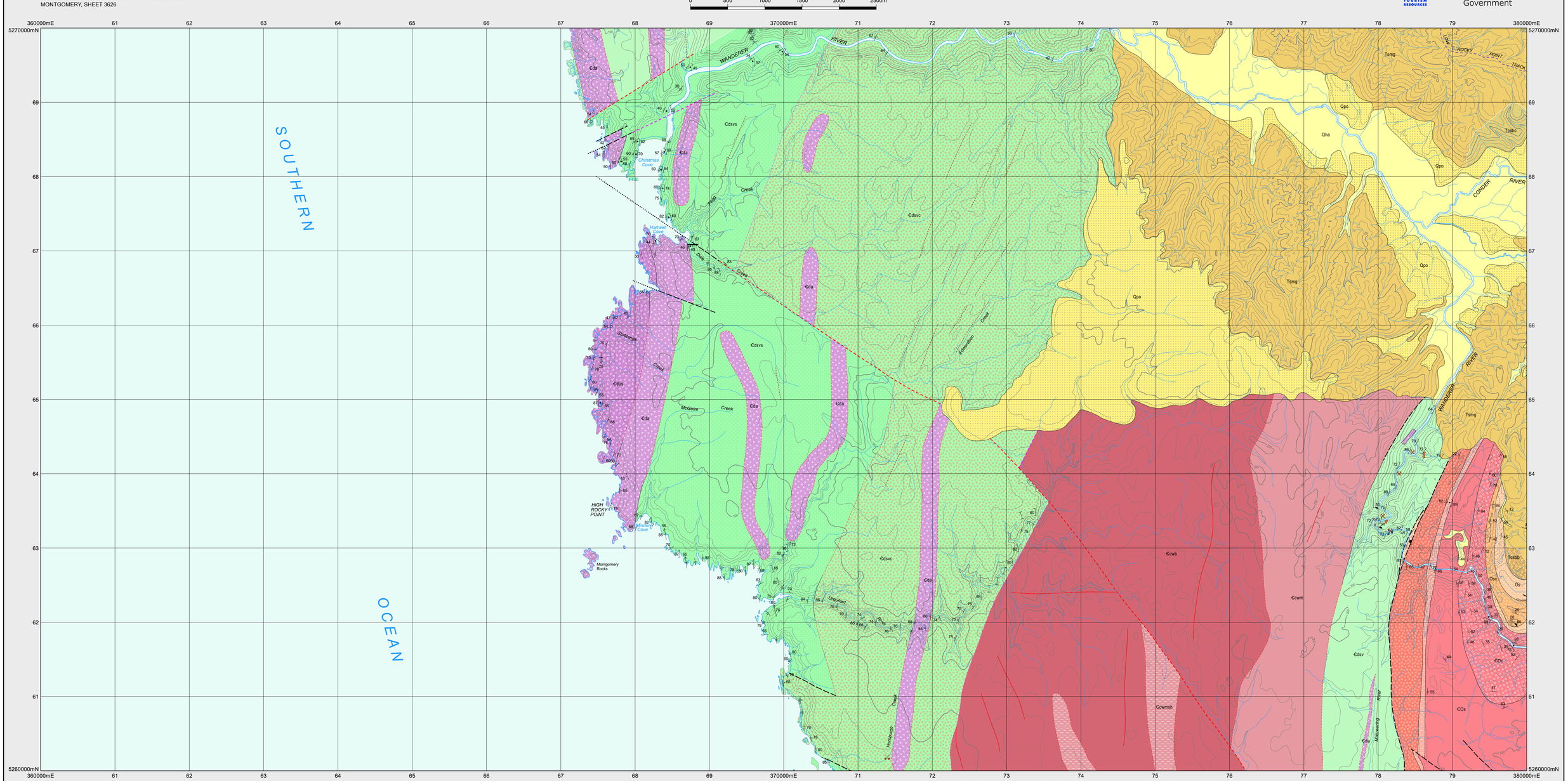
MONTGOMERY

Scale 1:25 000

0 500 1000 1500 2000 2500m

INDUSTRY TOURISM RESOURCES

Tasmanian Government



CENOZOIC

QUATERNARY

- **Qha** — *Alluvium and swamp deposits (Qha).*
- **Qpo** — *Older alluvial gravels, mainly on raised terraces developed on Tertiary deposits, and showing a gradational relationship to younger alluvium (Qpo).*

HOLOCENE; ? PLEISTOCENE

Erosional surface.

PALEOGENE - NEOGENE

- **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).*
- **Tcsbb** — *Coarse bouldery deposits with clasts to 5m. Mostly developed near graben margin, with clasts of local derivation (Tcsbb).*
- **Tcsbc** — *Semi-consolidated sediments with abundant dolerite clasts up to boulder grade (Tcsbc).*

Angular unconformity.

PALEOZOIC

ORDOVICIAN

- **Ol** — *Limestone with associated siltstone and sandstone (Ol).*
- **Os** — *Pink to grey thin-bedded to laminated sandstone, bioturbated and sparsely fossiliferous (Os).*
- **Osc** — *Pink thickly bedded granule-pebble conglomerate containing white to pink chert clasts (Osc).*

? GORDON GROUP

CAMBRIAN — FURONGIAN

- **€Oc** — *Pink, thickly bedded to massive, pebble-cobble conglomerate (€Oc).*
- **€Os** — *Sandstone, grey to pink, trough cross-bedded, micaceous, with minor pebble conglomerate and siltstone (€Os).*
- **€Omsc** — *Marine sequence of mainly interbedded granule-pebble conglomerate and sandstone, with minor siltstone (€Omsc).*
- **€Omsh** — *Mainly green to grey siltstone, thin-bedded, micaceous (€Omsh).*

CORRELATE OF OWEN GROUP

Unconformity.

PALEOZOIC

CAMBRIAN

CAMBRIAN SERIES 3

- **€dsv** — *Mixed sequence of volcano-sedimentary, sedimentary and volcanic rocks, ranging from felsic to andesitic in composition, with andesitic rocks more common in western part. May include non-volcanic sedimentary rocks (€dsv).*
- **€dsvc** — *Dominantly volcaniclastic granule conglomerate and lithicwacke sandstone with interbedded siltstone and mudstone (€dsvc).*
- **€dsvs** — *Dominantly quartz-rich sandstone with interbedded siltstone and mudstone and minor conglomerate (€dsvs).*
- **€da** — *Andesitic lavas and breccias, and possible intrusives, typically plagioclase-pyroxene-phyric. Includes some units mapped from aeromagnetic signature (€da).*
- **€das** — *Interbedded andesitic lavas and breccias with volcaniclastic granule-pebble conglomerate, quartzwacke, laminated siltstone and mudstone (€das)*

CORRELATE OF WESTERN VOLCANO-SEDIMENTARY SEQUENCE — MOUNT READ VOLCANICS

TERRENEUVIAN - CAMBRIAN SERIES 2

- **€cwm** — *Volcaniclastic sandstone, siltstone, mudstone and minor chert with intercalated basaltic lavas and breccias (Mainwaring Group) (€cwm).*
- **€cwb** — *Dominantly basaltic lavas and breccias with minor sedimentary rocks (€cwb).*
- **€cwmsh** — *Laminated siltstone with interbedded laminated chert zones (€cwmsh).*

CORRELATE OF CLEVELAND-DUNDAS ASSOCIATION — ALLOCHTHONOUS SEQUENCES

INTRUSIVE ROCKS

PALEOZOIC

DEVONIAN

- **Dl** — *Lamprophyre dykes and bodies (Dl).*
- **qv** — *Quartz vein (qv).*

CAMBRIAN SERIES 3

- **€da** — *Andesitic lavas and possible intrusives (€da).* — MOUNT READ VOLCANICS

CONTACTS

- *Geological contact.*
- *Geological contact - inferred from magnetic data.*
- *Geological contact - inferred from radiometric data.*
- *Limit of mapping of sub-unit within undifferentiated rock unit.*
- *Limit of detailed mapping.*

FAULTS

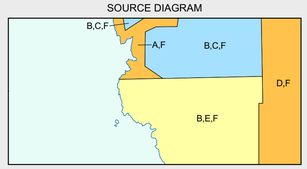
- *Fault.*
- *Fault - concealed.*
- *Fault - inferred from magnetic data.*
- *Fault - inferred from radiometric data.*

LINEARS

- *Lineament - visible in magnetic data.*
- *Lithological trend line, including bedding trace interpreted from aerial photographs.*

- *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 compositional layering.*
- *Strike and dip of cleavage, type and relative age unspecified - dipping; vertical.*
- *Strike and dip of crenulation cleavage.*
- *Strike and dip of primary igneous banding or platy alignment.*
- *Strike and dip of dominant joint set - dipping; vertical.*
- *Trend and plunge of hingeline of minor fold, unspecified relative age with dip and dip direction of axial surface; with vertical axial surface.*
- *Strike and dip of outcrop-scale fault.*
- *Field station for adjacent readings on the map.*
- *Mineral deposit location - hardrock.*
- *Mineral deposit location - alluvial/tailings.*

SOURCE DIAGRAM



- Highly detailed (eg. more detailed than 1:25 000 scale mapping).
- Detailed systematic (eg.1:25 000 map or equivalent detail).
- Regional systematic (eg.1:50 000, 1:63 360 map or equivalent detail).
- Regional mapping less detailed than 1:63 360 map or equivalent (all other scales).
- Reconnaissance mapping with sparse ground traverses.
- Remote sensing and/or geophysical interpretation with limited or no ground information.

Compiled by D.B. Seymour, B.Sc.(Hons), Ph.D. and D.Green, B.Sc.(Hons), Ph.D. 2003 from the following sources (see source diagram):

A Unpublished mapping by A.V. Brown, B.Sc.(Hons), Ph.D., 1989.

B D.B Seymour, 1999. New aeromagnetic and airphoto interpretation, with additional information from:

C Hall, W.D.M. et al., 1969. Report on Field Work in Exploration Licence 13/65, South-West Tasmania During 1967-1968 Field Season. Broken Hill Proprietary Company Ltd. TCR 69-0555.

D VICARY, M.J., PEMBERTON, J., BRADBURY, J. and CORBETT, K.D., 1992: Geology of the Wanderer River - Moores Valley area. Map 11. Mt Read Volcanics Project. Department of Mines, Tasmania.

E BROWN, A.V., 1988. Geological Atlas 1:50 000 Series, Sheet 78 (7912S), Montgomery. Tasmania Department of Mines.

Updated as part of the Western Tasmanian Regional Minerals Program by:

F CORBETT, K.D. 2004. Updating and revision of the 1:25 000 scale series geological maps covering the Mt Read Volcanics belt in western and northwestern Tasmania. Tasmanian Geological Survey Record 2004/03. Mineral Resources Tasmania.

REFERENCE THIS MAP AS:

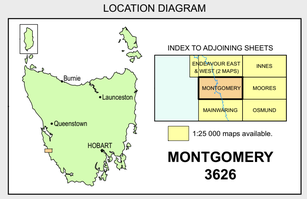
SEYMOUR, D.B. and GREEN, D. (compilers) 2004. Digital Geological Atlas 1:25 000 Scale Series. Sheet 3626 Montgomery. Mineral Resources Tasmania.

Map produced by Spatial Information Services, Mineral Resources Tasmania.

Website: www.mrt.tas.gov.au

GDA94 - MGA Zone 55. Contour Interval: 20 metres.

LOCATION DIAGRAM



1:25 000 maps available.

MONTGOMERY 3626

Map generated: 06-JUN-2024

WARNING: INKS ARE LIGHT SENSITIVE.