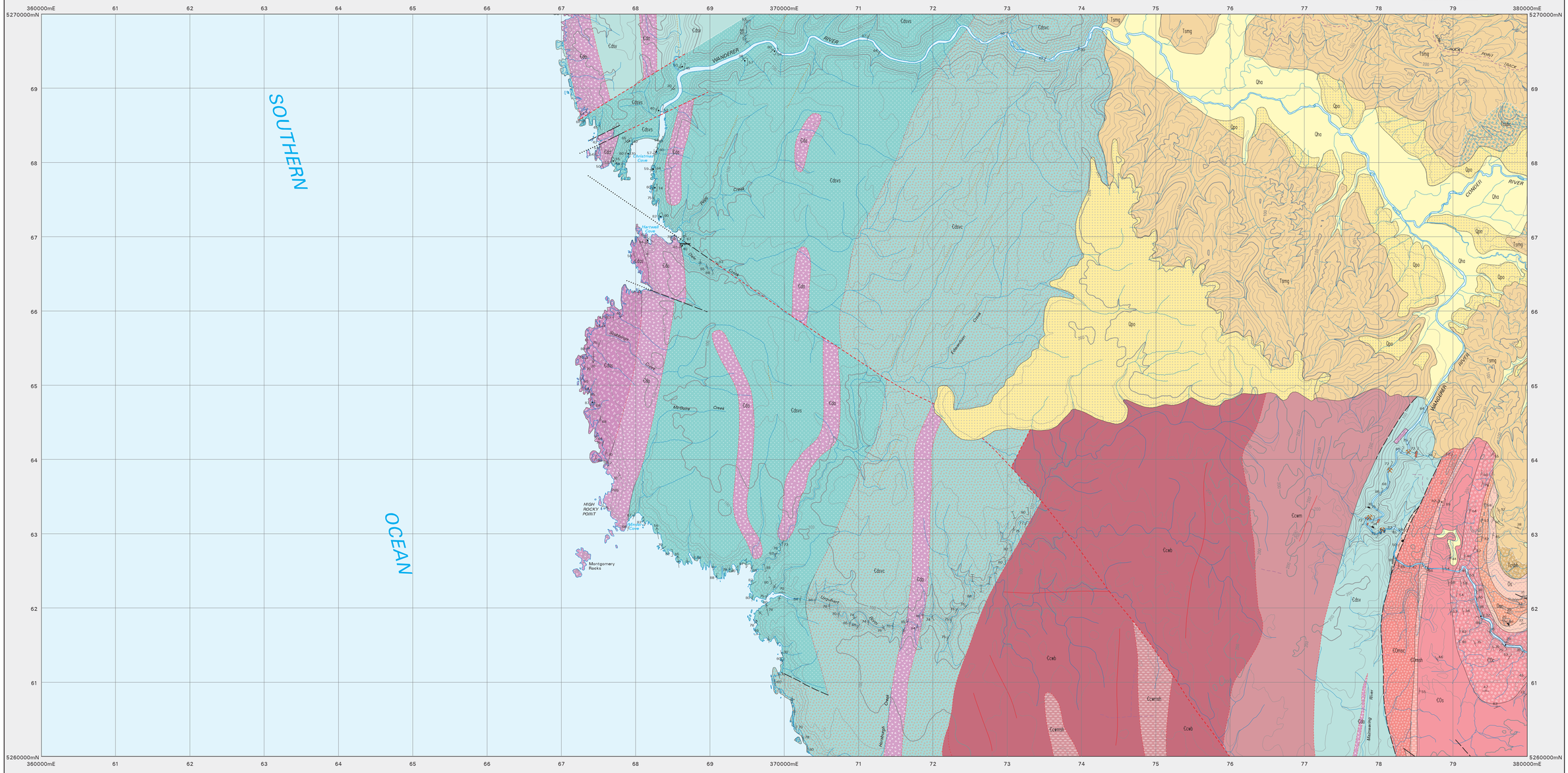
MINERAL RESOURCES TASMANIA
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES
MONTGOMERY, SHEET 3626

MONTGOMERY

Scale: 1:25 000

0 500 1000 1500 2000 2500m

MINERAL RESOURCES TASMANIA
Tasmania
DEPARTMENT of INFRASTRUCTURE ENERGY and RESOURCES



CAINOZOIC

QUATERNARY (PLEISTOCENE – HOLOCENE)

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).*

Erosional surface.

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).*

Tcsbb — *Coarse bouldery deposits with clasts to 5m. Mostly developed near graben margin, with clasts of local derivation (Tcsbb).*

Tcdbq — *Semi-consolidated sediments with abundant dolerite clasts up to boulder grade (Tcsbc).*

Angular unconformity.

PALAEOZOIC

ORDOVICIAN

Ol — *Limestone with associated siltstone and sandstone (Ol).* — GORDON GROUP

Os — *Pink to grey thin–bedded to laminated sandstone, bioturbated and sparsely fossiliferous (Os).* — GORDON GROUP

Osc — *Pink thickly bedded granule–pebble conglomerate containing white to pink chert clasts (Osc).* — GORDON GROUP

? LATE CAMBRIAN

COc — *Pink, thickly bedded to massive, pebble–cobble conglomerate (€Oc).* — CORRELATE OF PIVEN GROUP

COs — *Sandstone, grey to pink, trough cross–bedded, micaceous, with minor pebble conglomerate and siltstone (€Os).* — CORRELATE OF PIVEN GROUP

COmsc — *Marine sequence of mainly interbedded granule–pebble conglomerate and sandstone, with minor siltstone (€Omsc).* — CORRELATE OF PIVEN GROUP

COmsh — *Mainly green to grey siltstone, thin–bedded, micaceous (€Omsh).* — CORRELATE OF PIVEN GROUP

Unconformity.

PALAEOZOIC

MIDDLE CAMBRIAN

Cdsv — *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 (Cdsv).* — CORRELATE OF WESTERN VOLCANO–SEDIMENTARY SEQUENCE — MOUNT READ VOLCANICS

Cdsvc — *Dominantly volcaniclastic granule conglomerate and lithicwacke sandstone with interbedded siltstone and mudstone (Cdsvc).* — CORRELATE OF WESTERN VOLCANO–SEDIMENTARY SEQUENCE — MOUNT READ VOLCANICS

Cdsvs — *Dominantly volcaniclastic sandstone with interbedded siltstone and mudstone and minor conglomerate (Cdsvs).* — CORRELATE OF WESTERN VOLCANO–SEDIMENTARY SEQUENCE — MOUNT READ VOLCANICS

Cdo — *Andesitic lavas and breccias, and possible intrusives, typically plagioclase–pyroxene–phyric. Includes some units mapped from aeromagnetic signature (Cdo).* — CORRELATE OF WESTERN VOLCANO–SEDIMENTARY SEQUENCE — MOUNT READ VOLCANICS

Cdas — *Interbedded andesitic lavas and breccias with volcaniclastic granule–pebble conglomerate, quartzwacke, laminated siltstone and mudstone (Cdas)* — CORRELATE OF WESTERN VOLCANO–SEDIMENTARY SEQUENCE — MOUNT READ VOLCANICS

? EARLY CAMBRIAN

Ccwm — *Volcaniclastic sandstone, siltstone, mudstone and minor chert with intercalated basaltic lavas and breccias (Mainwaring Group) (Ccwm).* — CORRELATE OF CLEVELAND–MAINWARING ASSOCIATION — ALLOCHTHONOUS SEQUENCES

Ccwb — *Dominantly basaltic lavas and breccias with minor sedimentary rocks (Ccwb).* — CORRELATE OF CLEVELAND–MAINWARING ASSOCIATION — ALLOCHTHONOUS SEQUENCES

Ccwmsh — *Laminated siltstone with interbedded laminated chert zones (Ccwmsh).* — CORRELATE OF CLEVELAND–MAINWARING ASSOCIATION — ALLOCHTHONOUS SEQUENCES

INTRUSIVE ROCKS

PALAEOZOIC

DEVONIAN

Dl — *Lamprophyre dykes and bodies (Dl).*

qv — *Quartz vein (qv).*

MIDDLE CAMBRIAN

Cdo — *Andesitic lavas and possible intrusives (Cdo).* — MOUNT READ VOLCANICS

Geological boundary – position accurate or approximate.
Geological boundary inferred from aeromagnetic data.
Fault – unspecified type, position accurate or approximate.
Fault – unspecified type, concealed.
Fault – unspecified type, inferred from aeromagnetic data.
Lithological trend line.
Lineament visible in airborne magnetic data.
(white line) Limit of mapping of sub–unit within undifferentiated rock unit.

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 – Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.

Compiled by D.B. Seymour, B.Sc.(Hons), Ph.D and Dûmen, 2003 from the following sources (see Responsibility Diagram):

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

B New aeromagnetic and airphoto interpretation, with additional information from BHP Co. Ltd. Exploration Dept. 1968: 1 Mile Geological Map - Point Hibbs (Double Cove & Hibbs Belts). EL 13/65 Southwest Tasmania.

C Vicary, M.J, Pemberton, J, Bradbury, J. & Corbett, K.D, 1992: Geology of the Wanderer River - Moores Valley area. Mt Read Volcanics Project, Map 11.

D Brown, A.V, 1988: Geological Atlas 1:50,000 Series, Sheet 78(7912S), Montgomery, with modifications based on aeromagnetic and airphoto interpretation.

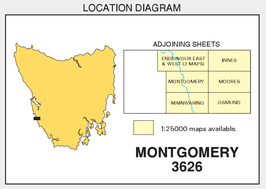
E Updated by K.D. Corbett, 2004 as part of the Western Tasmanian Regional Minerals Program.

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. AGD66 - AMG Zone 55. Contour Interval: 20 metres.

RESPONSIBILITY DIAGRAM

LOCATION DIAGRAM



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Data correct & plotfile generated: 21-APR-2005

WARNING: INKS ARE LIGHT SENSITIVE