MINERAL RESOURCES TASMANIA
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES
OSMUND, SHEET 3825

OSMUND

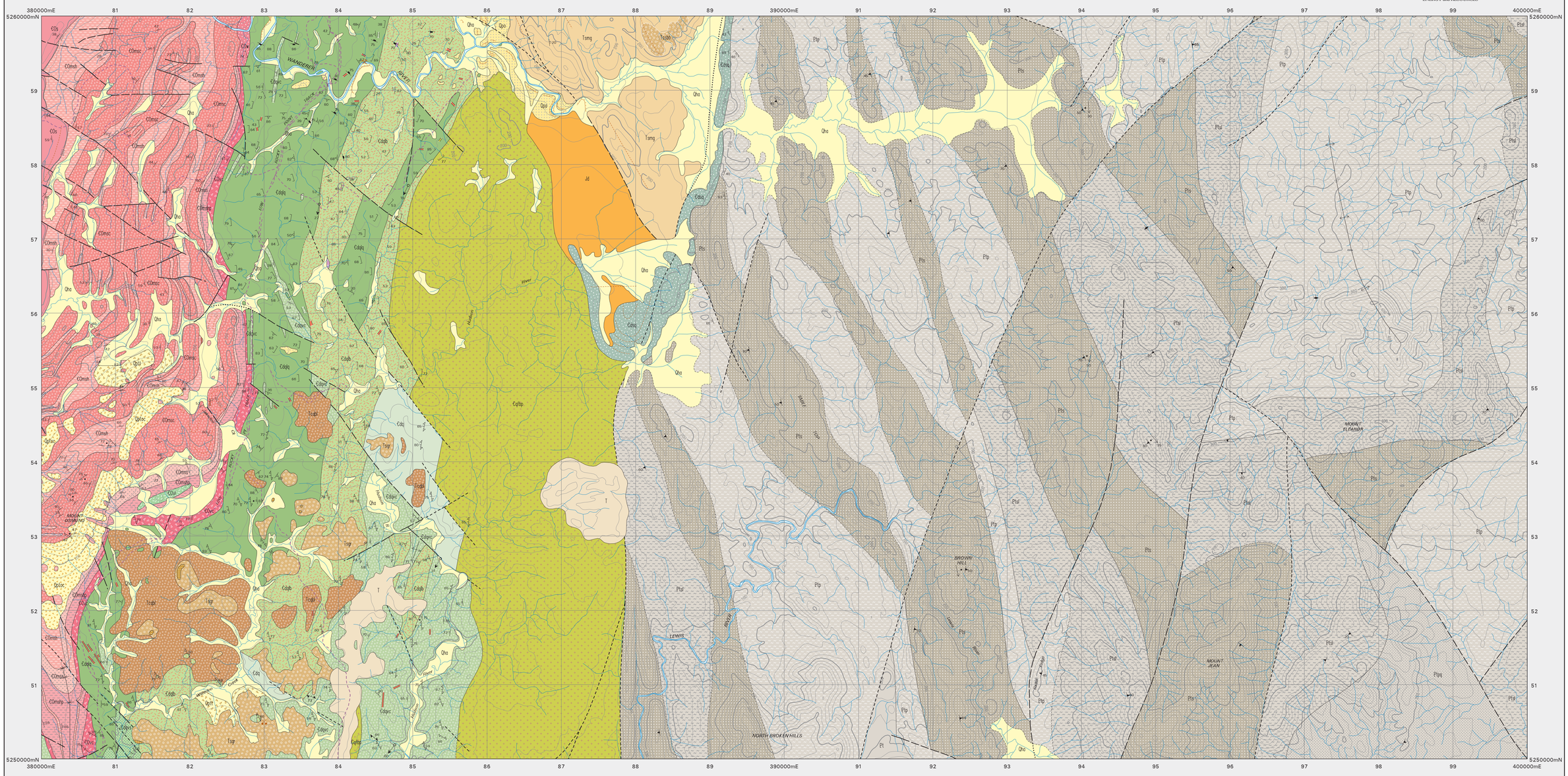
Scale: 1:25 000

0 500 1000 1500 2000 2500m

MINERAL RESOURCES TASMANIA

Tasmania

DEPARTMENT of INFRASTRUCTURE ENERGY and RESOURCES



CENOZOIC

QUATERNARY

HOLOCENE

- **Qha** — *Stream alluvium, swamp and marsh deposits (Qha).*
- **Qptt** — *Talus (Qptt).*
- **Qptoc** — *Talus derived from Ordovician conglomerate (Qptoc).*

?PLEISTOCENE

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

Erosional surface.

?LATE TERTIARY

- **T** — *Undifferentiated Tertiary (T).*
- **Tsgr** — *Rounded gravel, mainly vein quartz (Tsgr).*
- **Tcmsg** — *Silicified gravel deposits (Tcmsg).*
- **Tcqbl** — *Basal lag deposit of mainly subangular vein quartz clasts (Tcqbl).*
- **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).*

Angular unconformity.

PALEOZOIC

LATE CAMBRIAN

- **€Os** — *Sandstone, grey to pink, trough cross–bedded, micaceous, with minor pebble conglomerate and siltstone (€Os).*
- **€Oms** — *Dominantly marine sequence of interbedded sandstone, conglomerate and siltstone (€Oms).*
- **€Omss** — *Mainly interbedded granule–pebble conglomerate and sandstone, with minor siltstone (€Omss).*
- **€Omsh** — *Green to grey, thin–bedded micaceous siltstone and sandstone (€Omsh).*
- **€Omss** — *Mainly sandstone, thin–bedded, micaceous (€Omss).*
- **€Omshp** — *Shale–siltstone unit with basal volcaniclastic conglomerate (€Ow).*
- **€Ow** — *Mainly black pyritic shale and siltstone (€Omshp).*
- **€Ovl** — *Local unit of quartz–feldspar–phyric lava or intrusive (€Ovl).*
- **€Ovc** — *Volcaniclastic conglomerate and sandstone (€Ovc).*

TYENNAN CREEK GROUP

CORRELATE OF OWEN GROUP

Unconformity.

MIDDLE CAMBRIAN

- **€dq** — *Mainly felsic volcaniclastic, volcanic and intrusive rocks, typically quartz–feldspar–phyric (€dq).*
- **€dqvc** — *Dominantly felsic volcaniclastic rocks, well bedded to massive. Includes sandstone, siltstone, minor conglomerate, probable pyroclastic rocks and minor felsic lavas (€dqvc).*
- **€dqlq** — *Quartz–feldspar–phyric lava and/or intrusive, commonly spherulitic (€dqlq).*
- **€dqvs** — *Dominantly volcaniclastic sandstone with minor siltstone, typically well bedded (€dqvs).*
- **€dqlb** — *Quartz–feldspar–biotite–phyric lava and/or intrusive (€dqlb).*
- **€da** — *Intermediate lava or intrusive (€da).*
- **€dsq** — *Siliceous sandstone and pebble conglomerate with some interbedded siltstone and minor volcaniclastic rocks (correlate of Sticht Range Beds) (€dsq).*

CORRELATE OF EASTERN QUARTZ–PHYRIC SEQUENCE

CORRELATES OF MOUNT READ VOLCANICS

PROTEROZOIC

MESOPROTEROZOIC

- **Pt** — *Dominantly quartzite (Pts).*
- **Ptsl** — *Platey or schistose micaceous quartzite (Ptsl).*
- **Ptp** — *Dominantly phyllite (Ptp).*
- **Ptpq** — *Dominantly phyllite and quartz schist (Ptpq).*

TYENNAN REGION METASEDIMENTARY ROCKS

PALEOZOIC MESOZOIC

JURASSIC

MIDDLE CAMBRIAN

INTRUSIVE ROCKS

- **Jd** — *Dolerite and related rocks (Jd).*
- **qv** — *Quartz vein (qv).*
- **€qfbp** — *Quartz–feldspar–biotite porphyry, coarse–grained (€qfbp).*

CORRELATE OF MT READ VOLCANICS

Geological boundary – position accurate or approximate.
Geological boundary – inferred.
Fault – unspecified type, position accurate or approximate.
Fault – unspecified type, inferred.
Fault – unspecified type, concealed.
Scarp.
Lithological trend line.
Axial surface trace of major fold, antiform.
Axial surface trace of major fold, synform.
(white line) *Limit of mapping of sub–unit within undifferentiated rock unit.*

Strike and dip of bedding – right way up; facing unknown.
Strike and dip of cleavage of unspecified type and relative age.
Strike and dip of cleavage of unspecified type and relative age; vertical.
Strike of vertical bedding, facing unknown.
Strike and dip of cleavage or foliation, relative local age S1; vertical.
Strike and dip of cleavage or foliation, relative local age S2.
Trend and plunge of hinge line of minor fold, unspecified relative age; vertical axial surface.
Strike and dip of dominant joint set.
Strike and dip of igneous banding of platy alignment; vertical.
Strike and dip of ductile shear–band.
Strike and dip of metamorphic foliation; vertical.
Trend and plunge of mineral elongation lineation.
Field station for adjacent readings on the map.
Mineral deposit location – hardrock
Mineral deposit location – alluvial
Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.
Construction materials location – Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.

Compiled by R.O. Reid and D.C. Green, 2000 from the following sources (see Responsibility Diagram):

A Pemberton,J.; Vicary, M.J.; Bradbury,J.; Corbett,K.D. 1991: Geology of the Elliott Bay - Mt Osmund area. Mt Read Volcanics Project, Map 10.

B Hall, W.D.M. et al. 1969. 1 inch:mile Rocky Point Geological Map. Broken Hill Proprietary Company Limited. TCR 69_0555.

Updated by:

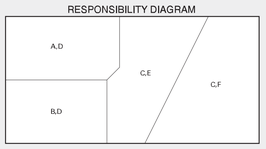
C Corbett K.D.(2004), as part of the Western Tasmanian Regional Minerals Program.

D Air photograph and WTRMP geophysical data interpretation by M.J. Vicary, 2004.

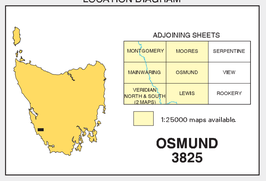
E Limited traverses by W.D.M. Hall and M.J. Vicary, 2006.

F Air photograph interpretation by W.D.M. Hall and M.J. Vicary, 2006.

RESPONSIBILITY DIAGRAM



LOCATION DIAGRAM



REFERENCE THIS MAP AS:

Reid, R.O.; Green, D.C. 2006 (Compilers). Digital Geological Atlas 1:25000 series, sheet 3825. Osmund. Mineral Resources Tasmania.

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Map produced by the Data Management Branch of Mineral Resources Tasmania using G.I.S. software.

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

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