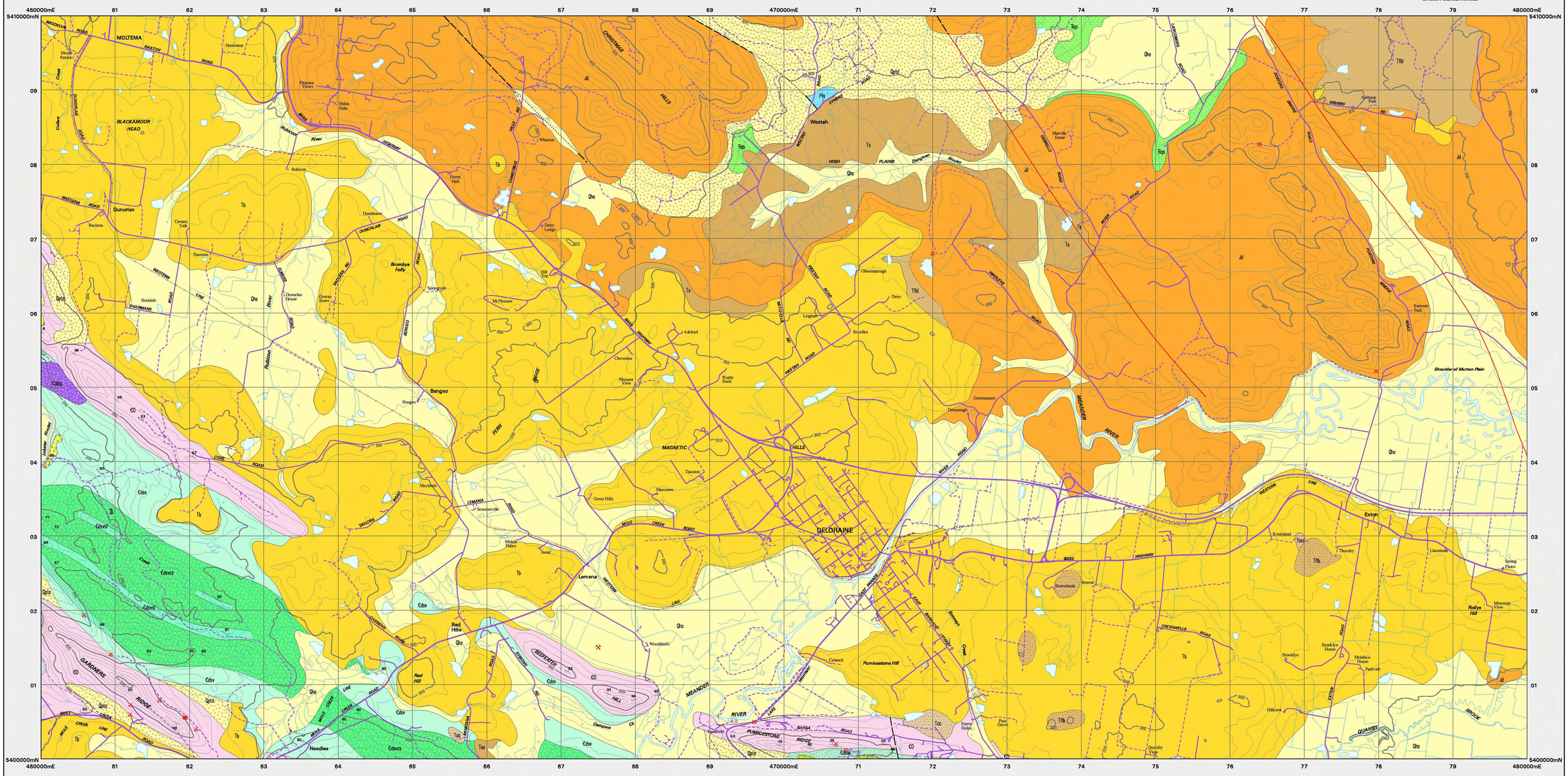
MINERAL RESOURCES TASMANIA
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES
DELORAINE, SHEET 4640

DELORAINE

Scale: 1:25 000

0 500 1000 1500 2000 2500m

MINERAL RESOURCES TASMANIA
Tasmania
DEPARTMENT of INFRASTRUCTURE ENERGY and RESOURCES



CAINOZOIC

QUATERNARY

HOLOCENE

- **Qha** — *Stream alluvium, swamp and marsh deposits (Qha).*
- **Qhm** — *Man disturbed ground (Qhm).*

PLEISTOCENE

- **Qpog** — *Older alluvium and river terrace deposits, dominantly cobble–boulder gravel (Qpog).*
- **Qptd** — *Talus consisting dominantly of dolerite boulders (Qptd).*
- **Qpto** — *Quartz sandstone and conglomerate talus derived from Owen Group correlates (Qpto).*

TERTIARY

- **Tfb** — *Laterite developed from Tertiary basalt (Tfb).*
- **Tfld** — *Laterite developed from Jurassic dolerite (Tfld).*
- **Ts** — *Undifferentiated Tertiary sediments; dominantly non–marine sequence of quartz sand, silt, clay, and regolith (Ts).*
  - **Tb** — *Basalt (Tb).*
    - **Tsco** — *Inter–and sub–basalt gravels of predominantly quartzite pebbles (Tsco).*
- **Tcc** — *Siliceous pebble to cobble conglomerate (Tcc).*
- **Tso** — *Poorly consolidated clay, silt and clayey labile sands with rare gravel and lignite: some iron oxide–cemented layers and concretion (Tso).*

PALAEOZOIC

MESOZOIC

TRIASSIC — UPPER PARMEENER SUPERGROUP

- **Rqs** — *Cross bedded quartz sandstone, feldspathic sandstone and shale (Rqs).*

PERMIAN — LOWER PARMEENER SUPERGROUP

- **Pfs** — *Dominantly well–sorted quartz sandstone, normally cross–bedded or laminated and commonly with interbedded and laminated carbonaceous shale, lesser conglomerate and rare coal (Liffey Sandstone) (Pfs).*

EARLY ORDOVICIAN -LATE CAMBRIAN — OWEN GROUP

- **€O** — *Undifferentiated shallow marine – non–marine siliciclastic conglomerate – sandstone sequence (€O).*

MIDDLE-LATE CAMBRIAN — MOUNT READ VOLCANICS

- **€dsv** — *Mixed volcano–sedimentary and sedimentary sequences of sandstone siltstone and conglomerate with felsic to intermediate volcanics. Includes 'Gog Range Greywacke' (€dsv).*
  - **€dsvcs** — *Siliciclastic conglomerate and sandstone, typically rich in quartzite clasts (€dsvcs).*
  - **€dsvc** — *Polymict conglomerate with volcanic and metamorphic clasts (€dsvc).*
  - **€dsvsf** — *Dominantly felsic volcaniclastic sandstone, typically quartz–feldspar rich, well bedded to massive (€dsvsf).*

INTRUSIVE ROCKS

MESOZOIC

JURASSIC

- **Jd** — *Dolerite and related rocks (Jd).*

PALAEOZOIC

MIDDLE-LATE CAMBRIAN — MOUNT READ VOLCANICS

- **€qfp** — *Quartz–feldspar porphyry – dominantly intrusive (€qfp).*
- **€dolq** — *Intrusive medium–grained plagioclase–amphibole–minor quartz diorite, plagioclase–biotite microdiorite, and quartz gabbro–norite (€dolq).*

Geological boundary – position accurate or approximate.

Geological boundary – inferred.

Fault – position accurate or approximate.

Fault – concealed.

Lineament visible in airborne magnetic data.

(white line) *Limit of mapping of sub–unit within undifferentiated rock unit (Colour boundary).*

Strike and dip of bedding, facing unknown.

Strike and dip of bedding, right way up.

Strike and dip of cleavage of unspecified type and relative age.

Strike of vertical cleavage of unspecified type and relative age.

Trend and plunge of lineation of unspecified type.

Trend and plunge of minor fold hinge line, unspecified relative age.

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

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Compiled by M.J. Vicary, 2004 as part of the Western Tasmanian Regional Minerals Program from the following sources (see Responsibility Diagram):

A GULLINE, A.B., BRAVO, A.P. and NAOVI, I.H., 1973. Geological atlas 1 mile series. Sheet 38 (8215S) Frankford. Tasmania Department of Mines.

B BARTON, C.M., BRAVO, A.P., GULLINE, A.B., LONGMAN, M.J., MARSHALL, B., MATHEWS, W.L., MOORE, W.R., NAVOI, I.H. and PIKE, G.P., 1968. Geological atlas 1 mile series. Sheet 46 (8214N) Quamby. Tasmania Department of Mines.

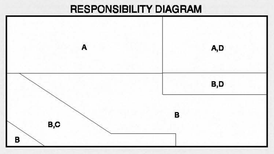
C HERRMANN, W., 1991 Annual report to 3/8/92 EL 16/90 - Deloraine. Unpublished report Outokumpu Exploration Australia Proprietary Limited. TCR 91-3277.

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

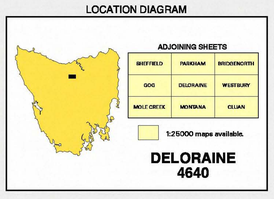
Digital base information from Information and Land Services Division, Department of Primary Industries, Water and Environment.

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



Data correct & plotfile generated: 22-MAR-2005

WARNING: INKS ARE LIGHT SENSITIVE