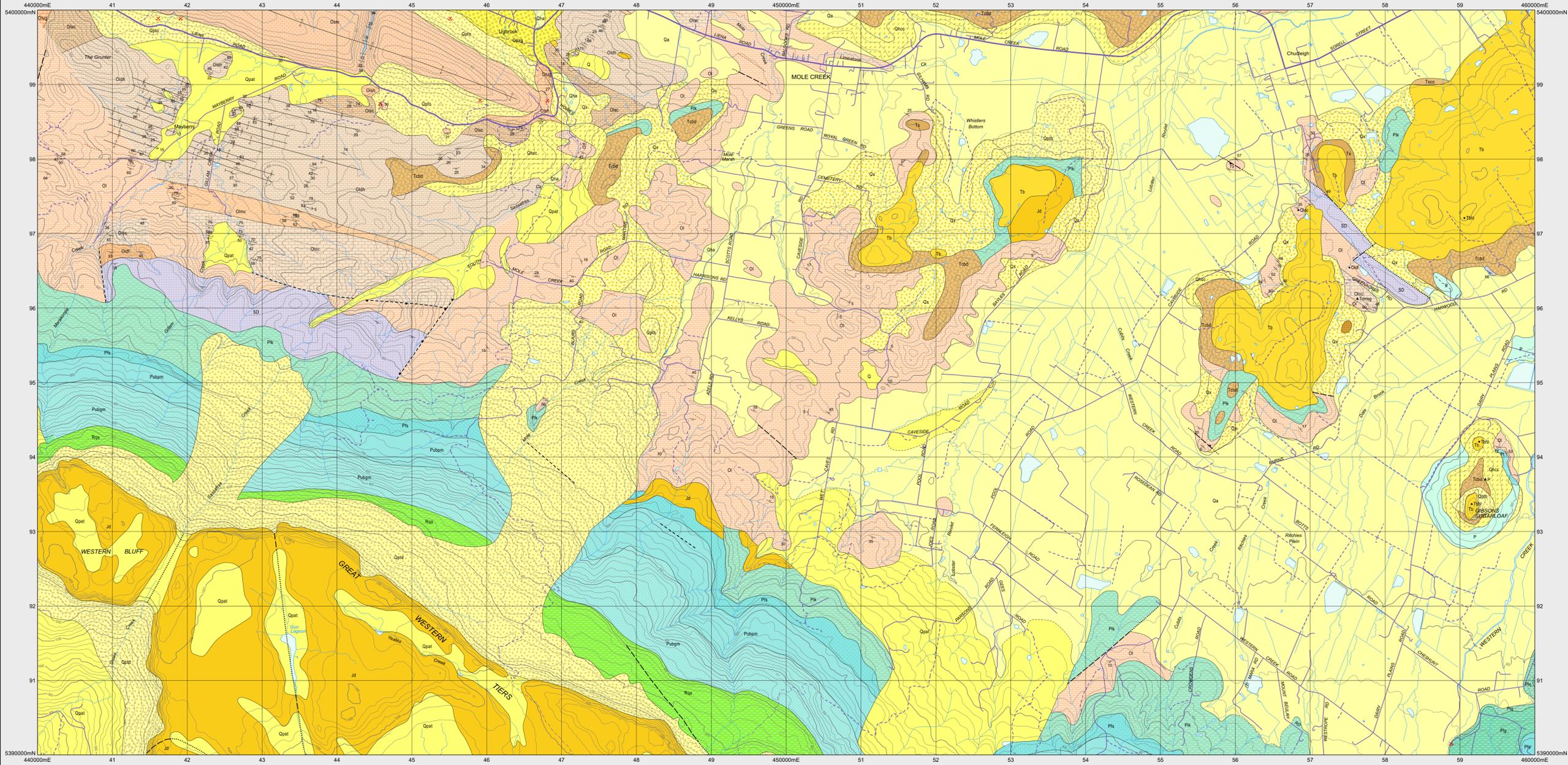


MOLE CREEK

Scale 1:25 000

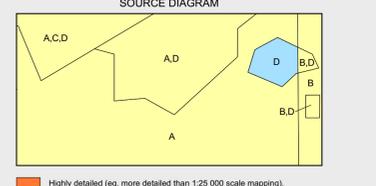


| PERMIAN | TRIASSIC | CRETACEOUS | QUATERNARY |
|---|---|---|--|
| <p>Pi Tilted and erratic rich mudstone (Stockers Tiltite) (Pi).</p> <p>Piq Interbedded conglomerate, pebbly sandstone and siltstone, and richly fossiliferous limestone (Kansas Creek beds) (Piq).</p> <p>Pig Predominantly fossiliferous and erratic rich mudstone, shale, limestone and Sandstone (Golden Valley Group) (Pig).</p> <p>Pfs Dominantly well-sorted quartz sandstone, normally cross-bedded or laminated and commonly with interbedded and lensated carbonaceous shale, lesser conglomerate and rare coal (Lilley Sandstone) (Pfs).</p> <p>Pubgm Sandstone, mudstone and pebbly mudstone with marine fossils (correlate of Poatina Group but excluding the Garcia Sandstone) (Pubgm).</p> <p>Pufb Unfossiliferous pebbly siltstone, siltstone and sandstone (correlate of Bogan Gap Group but including the Garcia Sandstone) (Pufb).</p> <p>Pof Unfossiliferous Permian-Carboniferous sediments (P).</p> | <p>Rgs Cross bedded quartz sandstone, feldspathic sandstone and shale (Rgs).</p> | <p>Qpat Till, talus and alluvial gravels (Qpat).</p> <p>Qpbt Talus consisting dominantly of dolerite boulders (Qpbt).</p> <p>Qpab Basalt talus (Qpab).</p> <p>Qp Slope deposits derived from Tertiary units (Q).</p> <p>Qpab Older alluvium, dominantly of river terraces, dominantly cobble-boulder gravel (Qpab).</p> <p>Qa Alluvial gravel, sand and clay (Qa). Younger Stream alluvium, marsh and swamp deposits (Qha).</p> <p>Qha Undifferentiated Quaternary sediments (Q). Alluvial gravel, sand and clay (Qa). Colluvium with dolerite boulders and cobbles derived from Paleogene-Neogene dolerite conglomerate (Qhcc).</p> | <p>Qhcc Undifferentiated Quaternary sediments (Q). Alluvial gravel, sand and clay (Qa). Colluvium with dolerite boulders and cobbles derived from Paleogene-Neogene dolerite conglomerate (Qhcc).</p> |

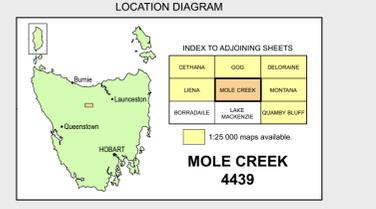
| ELDON GROUP | GORDON GROUP | OWEN GROUP |
|--|---|---|
| <p>SD Quartz sandstone, laminated siltstone and shale (SD).</p> <p>Oidf Dark grey limestone, dolomite, calcareous mudstone, minor quartz sandstone and black clay weathering products, in part fossiliferous (Gordon Group and correlative) (O).</p> <p>Oisc Carbonate, variably fossiliferous (Gordon Group and correlative) (O).</p> <p>Oimc Unfossiliferous dolomitic micrite, dolomitic siltstone, dolomite and dolosiltites (Overflow Creek Formation) (Oimc).</p> <p>Oimr Fossiliferous red to grey quartz siltstone, black shale, calcarenite and minor micrite (Mole Creek Formation) (Oimr).</p> <p>Oidh Interbedded micrite and dolomitic micrite. Nodular chert and bioturbation common (Oge Head Formation) (Oidh).</p> <p>Oicb Interbedded micrite and slightly dolomitic micrite with basal calcarenite (Sassafras Creek Formation) (Oicb).</p> <p>Oimn Nodular micritic limestone and bioturbated pyritic mudstone. Sparsely fossiliferous (Egbrook Formation) (Oimn).</p> <p>Oiah Oncolitic carbonate and minor dolomitic micrite and calcarenite (Standard Hill Formation) (Oiah).</p> <p>Osm Pale grey to pink, commonly cross-bedded quartz sandstone, coarse and pebbly towards base with tubular trace fossils in upper sequences (correlate of Moine Sandstone) (Osm).</p> | <p>Jd Dolerite and related rocks (Jd).</p> | <p>Jd Dolerite and related rocks (Jd).</p> |

| CONTACTS | FAULTS | LINEARS |
|--|--|--|
| <p>Geological contact - inferred.</p> <p>Geological contact - inferred.</p> <p>Limit of mapping of sub-unit within undifferentiated rock unit.</p> <p>Limit of detailed mapping.</p> | <p>Fault - inferred.</p> <p>Fault - inferred.</p> <p>Fault - concealed.</p> <p>Normal fault (downthrown side indicated).</p> <p>Normal fault (downthrown side indicated) - inferred.</p> | <p>Axial surface trace of major anticline.</p> <p>Axial surface trace of major synform.</p> <p>Lithological trend line, including bedding trace interpreted from aerial photographs.</p> |

| CONTACTS | FAULTS | LINEARS |
|---|--|--|
| <p>Strike and dip of bedding, right way up.</p> <p>Strike and dip of bedding, facing unknown.</p> <p>Strike and dip of cleavage of unspecified type and relative age.</p> <p>Strike of vertical cleavage of unspecified type and relative age.</p> <p>Trend and plunge of minor fold hinge line, unspecified relative age.</p> <p>Notable small outcrop with rock unit indicated.</p> <p>Notable small fault or lag occurrence with rock unit indicated.</p> <p>Construction material/industrial mineral/gemstone location.</p> | <p>Fault - inferred.</p> <p>Fault - inferred.</p> <p>Fault - concealed.</p> <p>Normal fault (downthrown side indicated).</p> <p>Normal fault (downthrown side indicated) - inferred.</p> | <p>Axial surface trace of major anticline.</p> <p>Axial surface trace of major synform.</p> <p>Lithological trend line, including bedding trace interpreted from aerial photographs.</p> |



- 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 M.J. Vicary, B.Sc.(Hons), 2004 as part of the Western Tasmanian Regional Minerals Program, from the following sources (see source diagram):
- A. JENNINGS, I.B. and BURNS, K.L., 1958. Geological Atlas 1 Mile Series, Zone 7 Sheet 40, Middlesex, 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., NAVOJ, I.H. and PIKE, G.P., 1969. Geological Atlas 1 Mile Series, Sheet 46 (BCHM), Queenie, Tasmania Department of Mines.
- C. BURRETT, C., BANKS, M., CLOTA, G. and SEYMOUR, D., 1989. Lithostratigraphy of the Ordovician Gordon Group, Mole Creek Tasmania. Rec. Queen Victoria Museum, No. 96.
- D. C. CALVER, B. WAINING Mapping and air photo interpretation, 2012-2013.



REFERENCE THIS MAP AS:
VICARY, M.J. (compiler) 2004. Digital Geological Atlas 1:25 000 Scale Series, Sheet 4439 Mole Creek, Mineral Resources Tasmania.

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Website: www.mrt.tas.gov.au

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

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