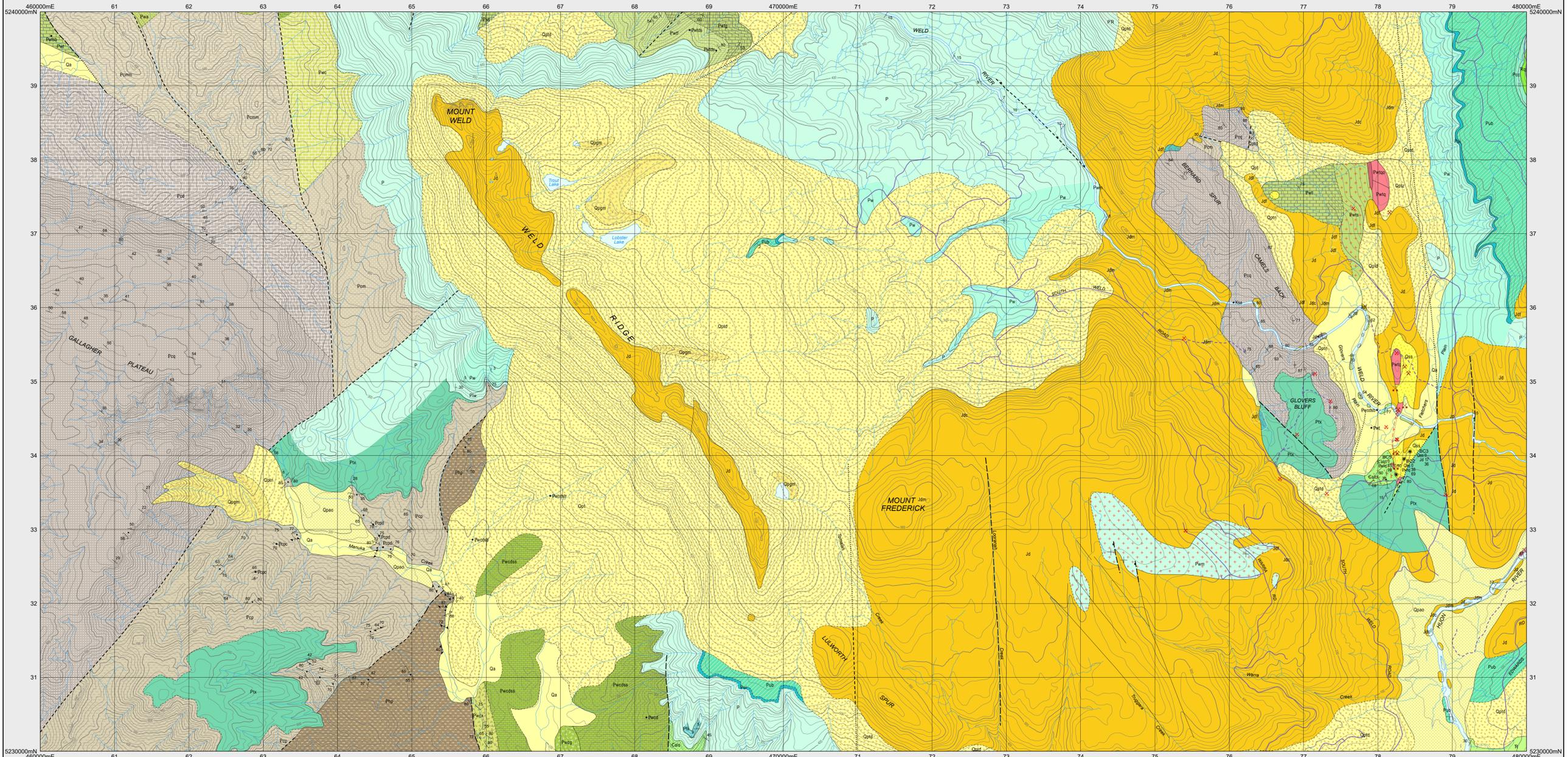


# WELD

Scale 1:25 000

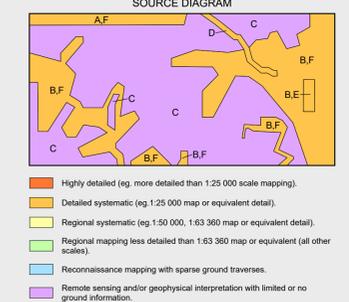


CEANOZOIC	QUATERNARY	MESOZOIC	TRIASIC	PERMIAN	PALEOZOIC	CARBONIFEROUS	PERMIAN	CAMBRIAN	
	<ul style="list-style-type: none"> <li>Qa Qpao Undifferentiated Quaternary sediments (Q). Alluvial sand, gravel and clay (Qa). Some alluvial terrace deposits indicated (Qpao).</li> <li>Qss Lag and colluvium of quartz gravel, sand and clay, dominantly derived from silicified Proterozoic and Cambrian rocks (Qss).</li> <li>Qpt Talus (Qpt), talus consisting dominantly of Jurassic dolomite boulders (Qpdt); talus of Proterozoic orthoquartzite (Qpdt); talus of silicified Proterozoic-Cambrian rocks (Qpdt).</li> <li>Qpmm Mostly moraine deposits (Qpmm).</li> </ul>		<ul style="list-style-type: none"> <li>Rpp Undifferentiated Permian-Carboniferous sediments (PR), undifferentiated Upper Permian supergroup rocks (R). Dominantly freshwater, cross-bedded quartzose sandstone and subordinate micaceous siltstone and mudstone (correlate in part of Ross Formation) (Rpp).</li> <li>Rpc Freshwater cross-bedded feldspathic sandstone, micaceous siltstone, carbonaceous beds and coal lenses at places (correlate of Great Coal Measures) (Rpc).</li> <li>Rpb Undifferentiated Permian-Carboniferous sediments (P). Generally unfossiliferous medium to thick-bedded marine siltstone and sandstone with limestone, some intensely bioturbated beds and rare conglomeratic siltstone layers laminated dark grey micaceous siltstone with foraminifera at top (correlate of Aboki Bay Formation) (Rpb).</li> <li>Rpa Well-sorted, fine-to coarse-grained marine feldspathic sandstone with quartz granules and pebbles (correlate of Risdon Sandstone) (Rpa).</li> <li>Rpw Generally fossiliferous mudstone, siltstone and sandstone with limestones (correlate of Burdekin, Deep Bay and Manna Point Formations and Faulkner Group) (Rpw). Contact metamorphosed by Jurassic dolomite (Pdm). Well-sorted, fine-grained quartz sandstone (correlate of Faulkner Group) (Rpw).</li> <li>Rph Uniform, poorly bedded dark grey marine mudstone and siltstone with sparse glauconitic fossils, limestones and pyrite nodules (correlate of Moody Island Siltstone) (Rph).</li> <li>Rpi Dark grey dominantly pebbly diamictite with sparse fragmentary marine fossils, mudstone and laminite, upper unit at Maydena Range of interbedded, pebbly to boulder grade conglomerate diamictite and sandstone with some shell fossils (correlate of Truro Tillite) (Rpi); contact metamorphosed by Jurassic dolomite (Pdm).</li> </ul>						

NEOPROTEROZOIC	PROTEROZOIC	PALEOZOIC	NEOPROTEROZOIC
<ul style="list-style-type: none"> <li>Pwts Skarn-altered dolostone of Weld River Group; diopside-calcite-brucite-serpentine-tremolite-talc-opal-dolomite mineral assemblages (Pwts). Cambrian rocks and Proterozoic dolostone altered to fine-to coarse-grained secondary quartzite, quartzitic breccia and opaline silica (Pwts); dominantly opaline silica (Pwtp).</li> <li>Pwpc Predominantly pebbly laminated dolomitic siltstone and mudstone (Pwpc).</li> <li>Pwpx Predominantly black dolomitic diamictite (Pwpx).</li> <li>Pwcd Predominantly massive, fine-grained dolostone (Pwcd). Lag of silicification products (Pwcds); boundary lag of silicification products (Pwcds); (Pwcds correlate of Colesia Creek Formation).</li> <li>Pwv Dolostone (Pwv). Dominantly fine-grained dolostone (Pwvf); dominantly oolitic granitoid (Pwvg); variably silicified dolostone (Pwvd); boundary lag of silicification products (Pwvd).</li> </ul>	<ul style="list-style-type: none"> <li>Pdm Dominantly mudstone and quartz siltstone (Pdm).</li> <li>Pdc Dominantly dolomitic mudstone and siltstone, with minor dolostone and limestone (Pdc).</li> <li>Pds Dolomitic mudstone, siltstone and intraclastic conglomerate (Pds).</li> <li>Pqc Orthoquartzite (Pqc).</li> <li>Pcp Slate and phyllite with minor quartzite dolostone and quartzitic conglomerate (Pcp). Local occurrence of dolostone (Pcpd) and quartzitic conglomerate indicated (Pcpq).</li> <li>Pph Black slate and phyllite with minor quartzite and diamictite (Pph).</li> </ul>	<ul style="list-style-type: none"> <li>Calc Talc-hematite and sericite-chlorite-altered rocks of unit Calc (Calc).</li> </ul>	<ul style="list-style-type: none"> <li>Pcmm Dominantly mudstone and quartz siltstone (Pcmm).</li> <li>Pdc Dominantly dolomitic mudstone and siltstone, with minor dolostone and limestone (Pdc).</li> <li>Pds Dolomitic mudstone, siltstone and intraclastic conglomerate (Pds).</li> <li>Pqc Orthoquartzite (Pqc).</li> <li>Pcp Slate and phyllite with minor quartzite dolostone and quartzitic conglomerate (Pcp). Local occurrence of dolostone (Pcpd) and quartzitic conglomerate indicated (Pcpq).</li> <li>Pph Black slate and phyllite with minor quartzite and diamictite (Pph).</li> </ul>

INTRUSIVE ROCKS	ALTERED ROCKS
<ul style="list-style-type: none"> <li>Ksa Aplite at 476050mE, 523600mN (Ksa).</li> <li>Jd Dolomite (Jd). Dolomite of grain size 0-1.5 mm (Jdf); 1.5-3 mm (Jdm); and &gt;3 mm (Jds) indicated.</li> </ul>	<ul style="list-style-type: none"> <li>Calc Talc-hematite and sericite-chlorite-altered rocks of unit Calc (Calc).</li> <li>Pwts Cambrian rocks and Proterozoic dolostone (Weld River Group) altered to fine-to coarse-grained secondary quartzite, quartzitic breccia and opaline silica (Pwts); dominantly opaline silica (Pwtp).</li> <li>Pwts Skarn-altered dolostone of Weld River Group; diopside-calcite-brucite-serpentine-tremolite-talc-opal-dolomite mineral assemblages. Alteration probably Mesozoic in age (Pwts).</li> </ul>

CONTACTS	FAULTS	LINEARS
<ul style="list-style-type: none"> <li>Geological contact.</li> <li>Geological contact - inferred.</li> <li>Transitional geological contact.</li> <li>Limit of mapping of sub-unit within undifferentiated rock unit.</li> <li>Limit of detailed mapping.</li> </ul>	<ul style="list-style-type: none"> <li>Fault.</li> <li>Fault - inferred.</li> <li>Fault - concealed.</li> <li>Normal fault (downthrown side indicated).</li> <li>Normal fault (downthrown side indicated) - inferred.</li> </ul>	<ul style="list-style-type: none"> <li>Moraine ridge crest.</li> <li>Subsurface geological boundary projected to surface.</li> <li>Lineament - visible on aerial photographs.</li> <li>Magnetic gradient or lineament (direction towards lower values indicated).</li> </ul>



Compiled by C.R. Calver, B.Sc.(Hons), Ph.D., 1997 from the following sources (see source diagram):  
 A. C.R. Calver, 1989-1990, 1:25 000 scale mapping.  
 B. C.R. Calver, 1995-1998, 1:25 000 scale mapping.  
 C. C.R. Calver, airphoto interpretation.  
 D. C.R. Calver and J.L. Everard, personal observations.  
 E. C.R. Calver with acknowledgement to Cartlow, S.J., Pollock, S., Bellamy, P.G. (1987), TCR86-2855.  
 F. VICARY, M.J. 2005. Additional map compilation and review of existing maps in western Tasmania. Tasmanian Geological Survey Record 2005/5. Mineral Resources Tasmania.

**REFERENCE THIS MAP AS:**  
 CALVER, C.R. (Compiler) 1997. Digital Geological Atlas 1:25 000 Scale Series, Sheet 4623 Weld, Mineral Resources Tasmania.  
 Base data from the LIST, Copyright State of Tasmania.  
 Map produced by Spatial Information Services, Mineral Resources Tasmania.  
 Website: www.mrt.tas.gov.au  
 GDSM - MGA Zone 55. Contour Interval: 20 metres.

