GEOLOGICAL SURVEY OF TASMANIA

REGIONAL GEOLOGY OF THE MT YOUNGBUCK — MAGNET AREA

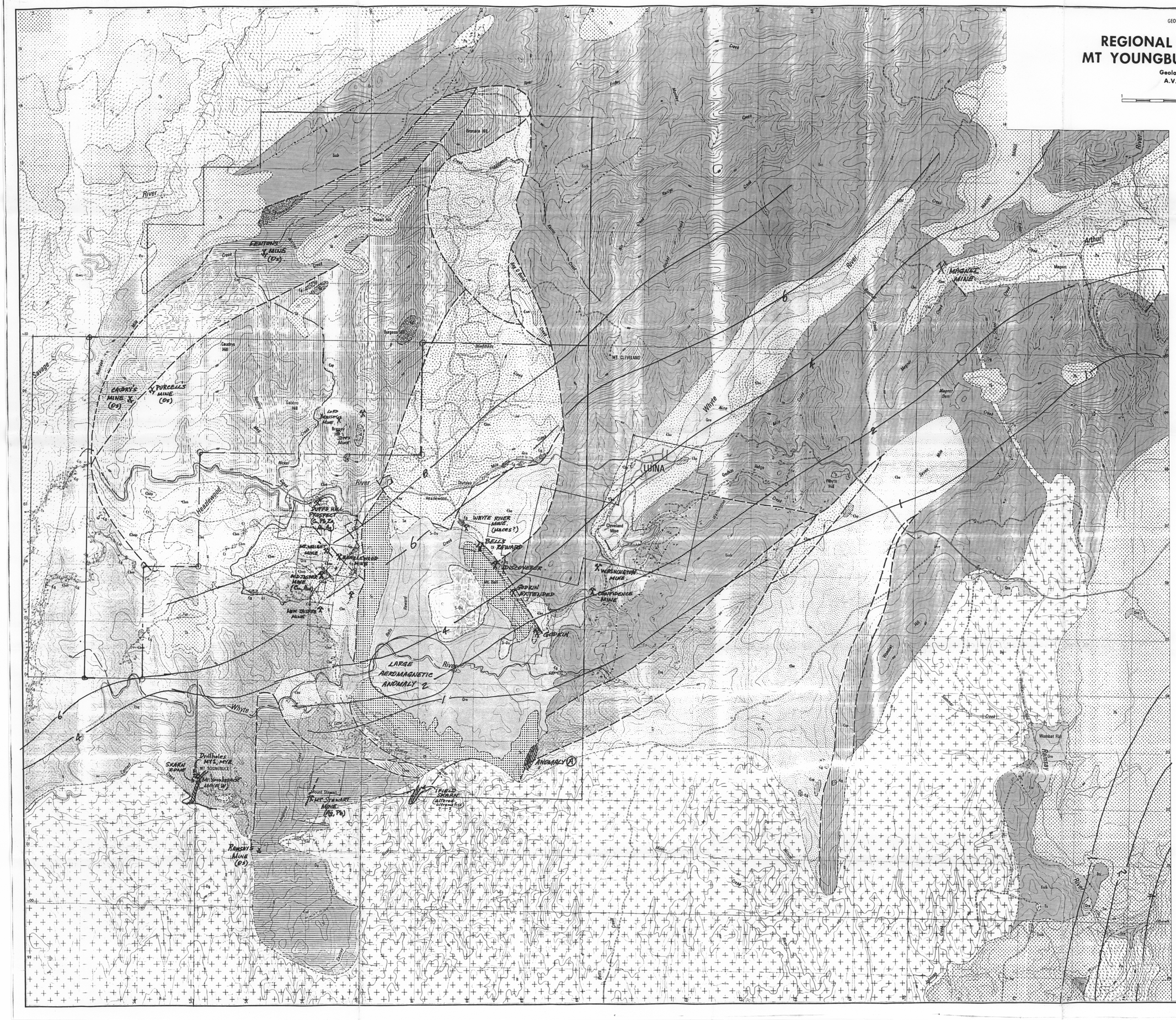
Fig. 7.

Geology and compilation by
A.V. BROWN B.Sc. (Hons)
1984

1 0 1 2 KILOMETRES
1:25 000

5 cm

02_4765
Annual Report Year Ending 14 September 2002 - EL 142/2001 - Heazlewood Area
Author: Hoskings, P.W.O.; Newnham, Exploration and Mine Newnham, L.A.
EL 142/01



REFERENCE

QUATERNARY	Qrp	Marsh and swamp deposits; alluvium; river gravels.
TERTIARY		Erosional Break
	Tsa	Tsa– Sand, silt and volcanic breccia.
	Tb	Tb– Tholeiitic and alkali olivine basalt
	Tsc	Tsc– Sediments and conglomerate; siliceous indicated (Tscs)
	Ts	Ts– Sediments
		Angular Unconformity
DEVONIAN		
SILURIAN	Ss	Siltstone; mudstone and calcareous siltstone(correlate of the Amber Formation).
	Sq	Quartz sandstone with minor mudstone and granule conglomerate (correlate of the Crotty Formation).
ORDOVICIAN	Ol	Limestone and impure limestone with variable texture (correlate of the Gordon Limestone).
	Ow	Owentwacke and minor mudstone.
		Erosional Break
EOCAMBRIAN	Ecc	Volcaniclastic lithowacke, siltstone, mudstone and tholeiitic basalt (correlate of the Crimson Creek Formation) Areas of dominantly basalt indicated Ecb
	Ssc	Quartzwacke and minor mudstone (possible correlate of the Success Creek Group
		Angular Landscape Unconformity
PRECAMBRIAN	Ep	Po Indurated quartz sandstone , siltstone and mudstone (correlate of the Oonah Formation)
	Ews	Pws Schistose quartz sandstone, siltstone and mudstone (correlate of the "Whyte Schist")

Igneous Rocks

TERTIARY	Tb	Tholeiitic and alkali olivine basalt.
DEVONIAN	Dg	Porphyritic fine to coarse–grained biotite granite/adamellite
		Fine to coarse–grained gabbro
		Massive ultramafic cumulate.
CAMBRIAN	Cbm	Massive and pillow aphyric basalt flows, commonly brecciated (low–titanium Tholeiitic) Individual flows graded from coarse–grained base to pillow tops.Interbasalt sandstone and siltstone indicated Cbm.
	Cbp	Porphyritic (orthopyroxene , chromite), high –magnesium andesite, commonly with pillow and breccia flows. Associated coarse–grained pyroxenite ( ) Cbop
	Cu	Tonalite and associated rocks.
	Cpu	Serpentinized, layered peridotite and pyroxenite . Serpentinitic melange indicated( ) Cum.
	Cum	Serpentinized dunite with areas of interlayered pyroxene–bearing dunite.

Depth Contours to top of Meredith Granite.

Geological boundary–position approximate

Geological boundary–inferred

Geological boundary–transitional.

Fault–position approximate

Fault–inferred

Strike and dip of bedding–facing known; vertical, facing known; overturned, facing unknown; vertical, facing unknown.

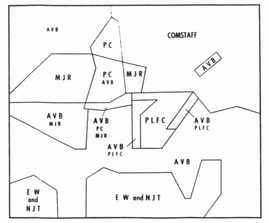
Strike and dip of compositional banding–in sedimentary rocks; in igneous rocks.

Strike and dip of cleavage of unspecified type or relative age; vertical.

Type of cleavage–slaty, crenulation.

Fold hinge, with plunge and dip of axial surface; vertical axial surface.

RESPONSIBILITY DIAGRAM



A V B	1:10 000 regional mapping
A V B	Reconnaissance and or traverse mapping
P L F C	Collins, P.L.F., 1983. Geology and Mineralization at the Cleveland Mine, Western Tasmania. *Unpubl. Ph.D. Thesis, Univ. of Tasm.*
P C	Crennavne, P., 1980. The Volcanics of the Heazlewood River Complex. *Unpubl. B.Sc.Thesis, Univ. of Tasm.*
COMSTAFF	Information supplied by Comstaff Pty Ltd on a scale of 1:50 000
M J R	Rubenach, M.J., 1973. The Tasmanian Ultramafic–Gabbro and Ophiolite Complexes. *Unpubl. B.Sc. (Hons.) Thesis, Univ. of Tasm.*
E W and N J T	Williams,E.,and Turner,N., 1974. Geological Atlas 1:250 000 Series. Sheet SK–55/3 Burnie.

LOCALITY MAP

Fig. 7.

CARTOGRAPHY BY P.B. NANKIVELL