

**REFERENCE**

**QUATERNARY**

**CANONIC**

**PHANEROZOIC**

**ARCHEAN**

**QUATERNARY**

Q Alluvium, colluvium and eolian sand

Czc Czl Czk

Czc Colluvium - partly consolidated valley-fill deposits

Czl Laterite - massive and pisolitic ferruginous duricrust

Czk Calcrite - sheet carbonate, usually formed in major drainage channels

q Quartz veins, various ages

d Dolerite dykes

da MURRAMUNDA DOLERITE: fine-grained to weakly porphyritic dolerite

**Hammersley Group**

Hm MARRA MAMBA IRON FORMATION: chert, ferruginous chert, minor shale

**Fortescue Group**

Ff JEERINAH FORMATION: interbedded shale, chert, minor felsic tuff

Fh Upper mafic volcanic unit: andesitic and basaltic lavas, minor thin tuff units

Fs Basal metasedimentary unit: coarse conglomeratic sandstone, shale

da Amphibolite dyke, foliated and lineated

ds Schistose amphibolite dyke: intruded into and deformed with the greenstone belt

g g<sub>1</sub> g<sub>2</sub> g<sub>3</sub>

g Granitoid rocks, undifferentiated, deeply weathered

g<sub>1</sub> Metagranite to metagranodiorite, medium- to even-grained

g<sub>2</sub> Metagranite to metagranodiorite, medium-grained, sparse feldspar phenocrysts

g<sub>3</sub> Metagranite, coarse-grained, feldspar and quartz megacrysts

h Greenstone belt extensively veined by granitoid rocks

iq Interbedded chert, fuchsite quartzite, quartzofeldspathic schist, calc-silicate schist, minor pelitic and semi-pelitic schist

l Banded iron-formation, undifferentiated

lh Hematite-magnetite-quartz banded iron-formation

la Amphibolite (granite and hornblende) - magnetite-quartz banded iron-formation

zc zc<sub>1</sub> zc<sub>2</sub>

zc Quartz-chlorite-amphibole feldspar (garnet) schist; relic textures indicate tuff

zh "Hybrid" intermediate rock, grades into recrystallized garnet-bearing granitoid rock

bb bg bu bp

bb Metabasalt: tholeiitic, locally amygdaloidal

bg Metagabbro, medium- and coarse-grained; includes some serpentinite, metaperidotite and metapyroxenite layers

bu Metasogabbro: <30% mafic minerals, minor quartz

bp Komatiitic metabasalt

ba Amphibolite, fine- and medium-grained, lineated and foliated

ua ub uc ud

ua Tremolite-chlorite-talc schist, minor talc-chlorite (serpentine) schist

ub Serpentine: cumulate textures may be preserved

uc Metapyroxenite, amphibole-chlorite rock

ud Silicified cap rock developed on ultramafic rocks

**SYLVANIA INLETS**

u Coobina ultramafic intrusion

v Jimblebar greenstone belt

**SYMBOLS**

Geological boundary

Fault

exposed

concealed

Small-scale fold showing orientation of axial surface, direction of plunge and nature of vergence (Z, S or M)

Bedding

inclined

vertical

overturned

Way-up indicator

differentiation in mafic sills

Cleavage: stony or spotted

Pre-Capricorn Orogeny

inclined

vertical

Capricorn Orogeny

inclined

vertical

Late, post-orogenic, inclined

Foliation

Pre-Capricorn Orogeny

inclined

vertical

Capricorn Orogeny

inclined

Lineation

plunge of stretching lineation

axis of oronulation hinges

Formed road

Track

Mining camp

Building

Yard

Landing ground

Watercourse intermittent

Pool

Well

Bore

Windpump

Pump engine

Mine with recorded production (gold unless otherwise stated)

Open-cut or pit

Mineral prospect

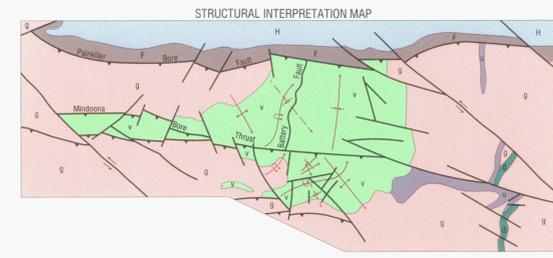
Mineral occurrence

Barite

Chromite

Copper

Lead



**STRUCTURAL INTERPRETATION MAP**

Murrumbidgee Dolerite

Hammersley Group

Fortescue Group

Granitoid rocks

Coobina ultramafic intrusion

Jimblebar greenstone belt

Fault

Thrust

Sinistral wrench fault

D<sub>1</sub>g, overturned anticline

D<sub>2</sub>g, syncline

D<sub>3</sub>g, overturned syncline

D<sub>4</sub>g, anticline

D<sub>5</sub>g, syncline

**INDEX TO 1:250 000 SHEETS**

ROY HILL SF 50-12	BALFOUR DOWNS SF 51-9	MUDALL SF 51-10
NEWMAN SF 50-16	ROBERTSON SF 51-13	GOONAWY SF 51-14
COLLIER SS 50-4	BULLEN SS 51-1	TRANKOR SS 51-2

**LOCALITY DIAGRAM**

**BULLETIN 138 PLATE 1**

**GEOLOGICAL MAP OF THE JIMBLEBAR GREENSTONE BELT**

SCALE 1:50 000

KILOMETRES

TRANSVERSE MERCATOR PROJECTION

Grid lines indicate 10 000 metre intervals of the Australian Map Grid Zone 51

Geology by I.M. Tyler 1983

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