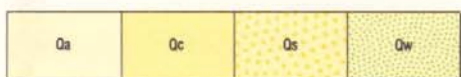
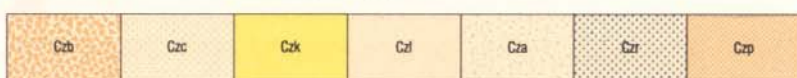


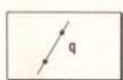
REFERENCE



Qa Alluvium — unconsolidated silt, sand, and gravel
 Qc Colluvium — unconsolidated quartz and rock fragments in soil
 Qs Eolian sand forming dunes and sheets
 Qw Alluvium and colluvium — red-brown sandy and clayey soil



Czb Silcrete — siliceous duricrust
 Czc Colluvium — partly consolidated valley-fill deposits
 Czk Calcrete — sheet carbonate, found along major drainage lines
 Czl Laterite — massive and pisolitic ferruginous duricrust
 Cza Alluvium — partly consolidated silt, sand, and gravel
 Czs Surficial hematite-goethite deposits and laterite on Hamersley Group rocks
 Czp **ROBE PISOLITE** — pisolitic ilmenite deposits developed along river channels



Quartz veins



Dolerite dykes, sills, and small intrusions

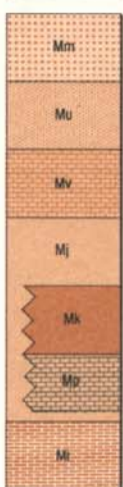
PHANEROZOIC

CAINOZOIC

QUATERNARY

c. 1100 Ma

Mucalana Subgroup
 Bangemall Group
 Edmund Subgroup



MOUNT VERNON SANDSTONE: fine- to medium-grained quartz sandstone, siltstone, and mudstone; minor glauconitic sandstone and conglomerate
ULLAWARRA FORMATION: mudstone, siltstone, and thin-bedded turbidite sandstone
DEVIL CREEK FORMATION: dololite, dolarenite, dolorudite, and local stromatolitic dolomite
JILLAWARRA FORMATION: mudstone, siltstone, and minor turbidite sandstone; top of unit marked by thin-bedded DISCOVERY CHERT
KIANGI CREEK FORMATION: quartz sandstone, siltstone, mudstone, dolomite, and minor conglomerate
CHEYNE SPRINGS FORMATION: stromatolitic dolomite, dololite, dolarenite, and dolorudite; lithologies are locally quartzitic
IRREGULLY FORMATION: stromatolitic dolomite, dololite, dolorudite, and minor quartz sandstone, conglomerate and chert

Bresnahan Group



Pebble to boulder conglomerate, pebbly coarse-grained sandstone



CAPRICORN FORMATION: ferruginous and quartzitic sandstone, mudstone, siltstone, conglomerate, dolomite, and felsic volcanic rock

PROTEROZOIC

c. 1840 Ma

Wyloo Group



ASHBURTON FORMATION:
 Pelite, thin-bedded metasandstone; minor medium- to thick-bedded metasandstone, metaconglomerate, and metadolomite
 Thin- to thick-bedded metasandstone; pelite and local metaconglomerate
 Banded iron-formation, chert, and ferruginous pelite
 Metabasaltic pillow lava and pillow breccia
 Thin- to thick-bedded metasandstone and pelite; local metaconglomerate and metadolomite
DUCK CREEK DOLOMITE: thin- to thick-bedded, locally stromatolitic, metadolomite; metadorudite, and minor chert and pelite
MOUNT McGRATH FORMATION: ferruginous metasandstone and metaconglomerate, pelite, and metadolomite

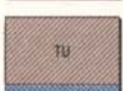


CHEELA SPRINGS BASALT: vesicular and amygdaloidal metabasalt, metatuff, and metasandstone



BEASLEY RIVER QUARTZITE: fine- to coarse-grained quartzitic metasandstone, and pelite; minor metadorite sills

Turree Creek Group



Pelite, metasandstone, local stromatolitic metadolomite
BOOLGEEDA IRON FORMATION: fine-grained, finely laminated iron-formation; pelite and chert
WOONGARRA VOLCANICS: meta-rhyolite, meta-rhyodacite, metatuff, and banded iron-formation (2470 ± 30 Ma, U-Pb; 2370 Ma, Rb-Sr)
WEELI WOLLI FORMATION: banded iron-formation (often jaspilitic), pelite, and numerous metadorite sills
BROCKMAN IRON FORMATION: banded iron-formation, chert, and pelite (2690 ± 16 Ma, U-Pb)
MOUNT McRAE SHALE and MOUNT SYLVIA FORMATION: pelite, chert, and banded iron-formation
WITTENOOM DOLOMITE: thin- to medium-bedded metadolomite, dolomitic pelite, and metatuff
MARRA MAMBA IRON FORMATION: chert, banded iron-formation, and pelite

Hamersley Group



Metadorite sills intruded into Fortescue Group; medium- to coarse-grained
 Layered mafic sills intruded into Fortescue Group; medium- to coarse-grained, sill tops may comprise coarse-grained leucocratic metadorite
JEERINAH FORMATION: pelite, metasandstone, chert, and metabasaltic pillow lava and breccia (2490 ± 20 Ma, U-Pb)
BUNJINAH FORMATION: metabasaltic pillow lava and breccia; metatuff and minor chert
PYRADIE FORMATION: pyroxene spinifex-textured metabasalt flows and pillow lava; metatuff, and minor chert; contains komatiite locally
BOONGAL FORMATION: metabasaltic pillow lava and breccia; metatuff and minor chert
HARDEY FORMATION: feldspathic metasandstone, pebbly metasandstone, and metaconglomerate
 Metabasaltic tuff and breccia, and vesicular metabasalt flows
MOUNT ROE BASALT: vesicular and amygdaloidal metabasalt, and metabasaltic breccia and tuff
BELLARY FORMATION: pelite, feldspathic metasandstone and metaconglomerate, metabasaltic lava and pillow lava, and metatuff

Fortescue Group

c. 2765 Ma

ARCHAEO

BANGEMALL BASIN

BLAIR BRESNAHAN BASIN

ASHBURTON BASIN

HAMERSLEY BASIN