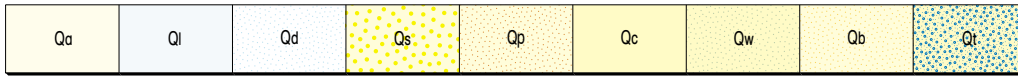


PHANEROZOIC

CAINOZOIC

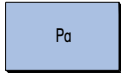
QUATERNARY



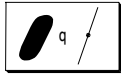
- Qa Alluvium—unconsolidated clay, silt, sand, gravel; in drainage channels and on adjacent flood plains
- Ql Lacustrine deposits—clay, silt, silty sand; playa (saline) and claypan (freshwater) deposits
- Qd Mixed lacustrine and eolian deposits—clay, silt, sand; vegetated swamps, numerous small claypans with fringing lunette dunes
- Qs Eolian deposit—sand; in sheets and longitudinal (seif) and chain dunes
- Qp Lag and eolian deposits—ironstone pebble, rock fragment, or quartz pebble veneer with eolian sand; in sheets and between dunes; overlies shallow bedrock
- Qc Colluvium—quartz pebble and rock fragment veneer on sand; adjacent to or on shallow bedrock; scree deposits
- Qw Colluvium and alluvium—silt, sand, and gravel on low slopes; sheetwash areas
- Qb Eluvium—swelling clay soil (gilgai); characterized by crabhole
- Qt Eluvium—scattered boulders, cobbles, and pebbles on clay, silt, and sand; lag deposit derived from weathered fluvio-glacial PATERSON FORMATION



- Czos **OAKOVER FORMATION**, upper unit; vuggy, white to grey opaline silica; silicified carbonate; minor calcareous sandstone
- Czoc **OAKOVER FORMATION**, lower unit; blue, grey, and fawn limestone; calcareous sandstone
- Czk Calcrete—massive, nodular, and vuggy limestone; some surface silicification in palaeodrainages
- Czc Colluvium—consolidated silt, sand, gravel, boulder beds; dissected by present-day drainage
- Czl Lateritic deposits—massive and pisolitic laterite, and ferruginous duricrust



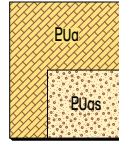
- Pa **PATERSON FORMATION**: fine- to coarse-grained sandstone, siltstone, mudstone (all with dropstones); diamictite, fluvio-glacial deposits



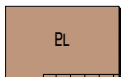
- q Quartz vein; various ages
- Ed Dolerite dyke and sill



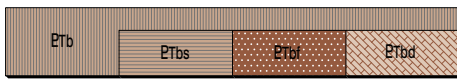
- EUy **YANDANUNYAH FORMATION**: siltstone, shale, fine-grained sandstone, and dolomite
- EUr **BROWNRIGG SANDSTONE**: fine- to coarse-grained sandstone and orthoquartzite; pyrite nodules
- EUw **WAROONGUNYAH FORMATION**: interbedded dolomite, shale, siltstone, and sandstone
- EUg **GOOGHENAMA FORMATION**: medium- to coarse-grained sandstone and conglomerate



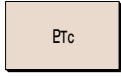
- EUa **WALTHA WOORRA FORMATION**: dolomite, stromatolitic dolomite, siltstone, shale, and sandstone
- EUas Medium- to coarse-grained sandstone; pebbly sandstone and conglomerate



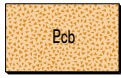
- PL Siliciclastic and carbonate rocks (section only)
- PLa Thin- to thick-bedded dolomite, sandy dolomite, and dolomitic mudstone; possible equivalent of ISDELL FORMATION
- PLq Quartz sandstone, quartz wacke, and siltstone



- ETb **BROADHURST FORMATION**: shale, carbonaceous shale, siltstone, wacke, sandstone, and dolomite (section only)
- ETbs Carbonaceous shale, shale, siltstone, and fine-grained sandstone
- ETbf Fine- to medium-grained feldspathic sandstone and wacke
- ETbd Interbedded dolomite, shale, and siltstone



- ETc **COOLBRO SANDSTONE**: quartz sandstone and conglomerate (section only)



- Ecb **PINJIAN CHERT BRECCIA**: chert breccia and poorly bedded chert; overlies Carawine Dolomite



- AHc **CARAWINE DOLOMITE**: massive- to well-bedded, recrystallized dolomite, and stromatolitic dolomite; minor chert



- Ad Fine- to coarse-grained dolerite; in dykes and sills; weakly metamorphosed
- Ads Metamorphosed dolerite and gabbro, sheared



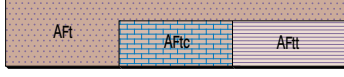
- AFj **JEERINAH FORMATION**: shale, chert, ferruginous chert, mudstone, fine-grained sandstone, and dolomite



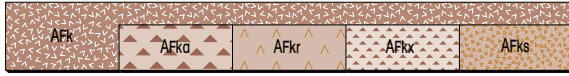
- AFv **Baramine Volcanic Member**: coarse- to fine-grained mafic tuff, with local accretionary lapilli; minor felsic and mafic flows



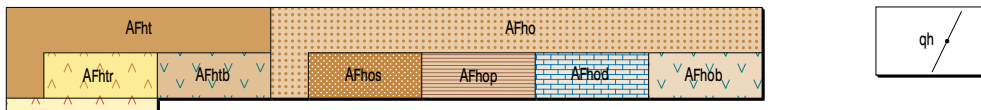
- AFm **MADDINA BASALT**: basalt and andesitic basalt, with silicified flow tops; abundant quartz-chlorite amygdaloids
- AFma Well stratified, tuffaceous sedimentary rock; common accretionary lapilli



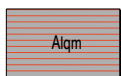
- AFt **TUMBIANA FORMATION**: dolomite, limestone, stromatolitic carbonate rock, tuff, pisolitic tuff, mudstone, and lithic sandstone (section only)
- AFtc Dolomite and stromatolitic dolomite
- AFtt Well-stratified tuffaceous sedimentary rock; common accretionary lapilli



- AFk **KYLENA BASALT**: basalt and andesitic basalt; stacked flows
- AFka Coarse felsic volcanic agglomerate
- AFkr Rhyolite
- AFkx Felsic breccia
- AFks Fine-grained tuffaceous sedimentary rock; common accretionary lapilli



- HARDEY FORMATION**
- AFht **Tanguin Member**: mixed felsic and mafic lavas, and tuffaceous sedimentary rocks
- AFhr Rhyolite
- AFhtb Basalt
- AFho **Warroo Hill Member**: metamorphosed fine- to coarse-grained clastic rock, tuff, and mafic rock (section only)
- AFhos Metasandstone, metaconglomerate, metasilstone, and quartzite
- AFhop Metamorphosed pelitic sedimentary rock; quartz-mica schist, phyllite, and slate
- AFhod Metadolomite
- AFhob Metabasalt and metabasaltic andesite; local amygdaloids
- AFhb **Koongaling Volcanic Member**: porphyritic and fine-grained felsic lavas; dacite, rhyodacite, rhyolite
- AFhi Metarhyolite, metadacite, and quartz-feldspar-mica schist
- AFhim Metarhyolite, metadacite, and quartz-feldspar-mica schist
- GREGORY GRANITIC COMPLEX**
- qh Quartz-hematite (martite) vein and dyke
- ARp Even, fine-grained to microporphyritic granitoid rock; probably derived from high-grade metamorphism of rhyolitic volcanic rock (possibly related to Koongaling Volcanic Member)
- ARr Metamorphosed porphyritic to seriate syenogranite, rapakivi texture; sheared, foliated, and gneissic
- ARy Granophyre, gneissic granophyre, and granophyric gneiss
- ARm Metamorphosed medium- to coarse-grained syenogranite; sheared, foliated, and gneissic



- Alqm Schistose metasedimentary rocks; quartz-muscovite-biotite-kyanite(-cordierite) assemblages; metamorphosed quartz-pebble conglomerate
- Adm Metamorphosed dolerite and gabbro, and amphibolite

Rafts restricted to GREGORY GRANITIC COMPLEX

PROTEROZOIC

Yeneena Supergroup

Lamill Group

Throssell Group

Hamersley Group

Fortescue Group

Mount Bruce Supergroup

Gregory Granitic Complex

c. 800 Ma

> 900 Ma

> 2500 Ma

c. 2687 Ma

c. 2715 Ma

c. 2757-2764 Ma

CANNING BASIN

PATERSON OROGEN

Yeneena Basin

Hamersley Basin

PILBARA CRATON