

PHANEROZOIC

CAINOZOIC

QUATERNARY



Qa Alluvium—unconsolidated clay, silt, sand, and gravel; in drainage channels and on adjacent flood plains
 Ql Lacustrine deposits—clay, silt, and silty sand; claypan (freshwater) deposits
 Qd Mixed lacustrine and eolian deposits—clay, silt, and sand; vegetated swamps, numerous small claypans with fringing lunette dunes
 Qs Eolian deposit—sand; in sheets, longitudinal (seif) and chain dunes
 Qp Lag and eolian deposits—ironstone pebble, rock fragment, or quartz pebble veneer with eolian sand; between dunes; overlies shallow bedrock
 Qc Colluvium—quartz pebble and rock fragment veneer on sand; adjacent to or over shallow bedrock; scree deposits
 Qt Eluvium—scattered boulders, cobbles, and pebbles on clay, silt, and sand; lag deposit derived from 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 and calcareous sandstone
 Czk Calcrete—massive, nodular and vuggy limestone; some surface silicification in palaeodrainages
 Czz Silcrete and siliceous duricrust; includes chalcedonic silica
 Czx Chert breccia over dolomite and limestone; overlies BROADHURST FORMATION
 Czi Laterite deposits—massive and pisolitic laterite, and ferruginous duricrust

MESOZOIC

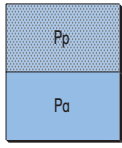
JURASSIC – CRETACEOUS



Jkc **CALLAWA FORMATION**: fine- to coarse-grained sandstone and poorly sorted pebble to cobble conglomerate; minor siltstone

PALAEZOIC

PERMIAN



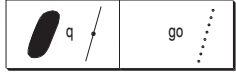
Pp **POOLE SANDSTONE**: fine- to coarse-grained sandstone, with siltstone interbeds; minor mudstone; trace fossils
 Pa **PATERSON FORMATION**: fine- to coarse-grained sandstone, siltstone, and mudstone (all with dropstones); diamictite; fluvio-glacial deposits

CANNING BASIN

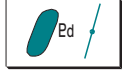
PROTEROZOIC

c. 800 Ma

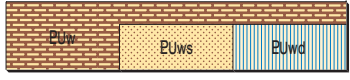
Tarcunyah Group



q Quartz vein; various ages
 go Gossan, gossanous zone



Ed Dolerite dyke and sill



EUw **WAROONGUNYAH FORMATION**: interbedded dolomite, sandstone, siltstone, and shale
 EUws Fine- to medium-grained sandstone and siltstone
 EUwd Bedded to laminated dolomite and stromatolitic dolomite



EUg **GOOGHENAMA FORMATION**: medium- to coarse-grained sandstone, quartz wacke, and thin beds of pebble to cobble conglomerate

>900 Ma

Yeneena Supergroup

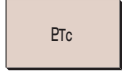
Throssell Group



EL **Lamil Group**: sedimentary rocks (section only)



ETb **BROADHURST FORMATION**: shale, siltstone, mudstone, and fine- to medium-grained sandstone
 ETbd Massive to thin-bedded dolomite and limestone; minor interbedded shale and siltstone
 ETbt Chert, silicified dolomite, and silicified stromatolitic dolomite



ETc **COOLBRO SANDSTONE**: fine- to coarse-grained sandstone; pyrite nodules common



Ecb **PINJIAN CHERT BRECCIA**: chert breccia and poorly bedded banded chert; overlies CARAWINE DOLOMITE (not exposed)

Yeneena Basin

PATERSON OROGEN

ARCHAEOAN

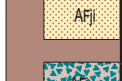
c. 2687 Ma

Mount Bruce Supergroup

Fortescue Group



AFj **JEERINAH FORMATION**: mixed sedimentary rocks; shale, siltstone, sandstone, and local microbanded chert; accretionary lapilli



AFj **Isabella Member**: fine-grained, massive rhyolite; quartz or carbonate amygdaloids; possible intrusion



AFj **Baramine Volcanic Member**: coarse- to fine-grained mafic tuff, with local accretionary lapilli; thin basalt flows



AFm **MADDINA BASALT**: basalt and basaltic andesite, with silicified flow tops; abundant quartz-chlorite amygdaloids



AFma Well-stratified tuffaceous sedimentary rock; commonly with accretionary lapilli



AFt **TUMBIANA FORMATION**: dolomite and stromatolitic dolomite, interbedded tuff, and pisolitic tuff



AFk **KYLENA BASALT**: basalt and basaltic andesite; stacked flows

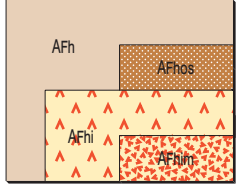
Hamesley Basin

PILBARA CRATON

c. 2757-2764 Ma

Pilbara Supergroup

Gorge Creek Group



AFh **HARDEY FORMATION**: sandstone, siltstone, and tuffaceous sandstone
 Warroo Hill Member
 AFh Metasandstone, quartzite, and metasilstone
 AFhi **Koongaling Volcanic Member**: porphyritic and fine-grained felsic lavas; dacite, rhyodacite, and rhyolite
 AFhim Metarhyolite, metadacite, and quartz-feldspar-mica schist

GREGORY GRANITIC COMPLEX

ARr Seriate to porphyritic, coarse-grained syenogranite, rapakivi texture; sheared and foliated
 ARy Granophyre, some cataclastically deformed
 ARm Fine- to coarse-grained syenogranite, some cataclastically deformed; sheared and foliated



AGci Banded iron-formation and jaspilite