PHANEROZOIC

CAINOZOIC

QUATERNARY

Qa | Qc | Ql | Qle | Qd | Qp | Qs | Qw

Qa Alluvium — silt, sand, and gravel; in drainage channels and on floodplains
Qc Colluvium — locally derived sand and gravel; in scree and outwash-fan deposits
Ql Lacustrine deposits — clay, silt, and silty sand; playa and claypan deposits
Qle Sand, silt, clay, and gypsum; in stabilized dunes adjacent to lacustrine deposits
Qd Mixed lacustrine and eolian deposits — clay, silt, and sand
Qp Lag and eolian deposits — sand with ferricrete pebbles and sand-sized particles
Qs Eolian deposits — sand; includes sheets, and dunes with intervening sandy valleys
Qw Colluvial clay, silt, sand, and gravel — in distal outwash deposits in poorly drained areas; numerous small claypans

Czc | Czk | Czz | Czl

Czc Colluvium — variably cemented outwash talus; dissected by present drainage
Czk Calcrete — massive, nodular, and cavernous sandy limestone; locally silicified
Czz Silcrete — siliceous caprock with angular quartz grains
Czl Ferricrete — ferruginous duricrust

MESOZOIC

CRETACEOUS

Ka — **ANKETELL SANDSTONE:** conglomeratic sandstone, fine- to coarse-grained, thin- to medium-bedded, wavy bedded, ripple marked, cross-bedded, and bioturbated; minor interbedded mudstone

Kr — **CRONIN SANDSTONE:** sandstone, fine- to coarse-grained, bioturbated, and cross-bedded; minor pebble conglomerate; plant fossils

PALAEOZOIC

PERMIAN

Pa — **PATERSON FORMATION:** sandstone, claystone, conglomerate, and boulder beds; tillite and other fluvioglacial deposits

CANNING AND GUNBARREL BASINS

d | q

d Dolerite dyke
q Quartz vein

PROTEROZOIC

NEOPROTEROZOIC

*c.*800 Ma

Tarcunyah Group

ᴾUss | ᴾUd | ᴾUk | ᴾUks | ᴾUkp | ᴾUkk

ᴾUss Sandstone, fine- to medium-grained and well-bedded; minor interbedded siltstone and shale
ᴾUd Dolostone and dolomitic sandstone; stromatolitic
ᴾUk **KARARA FORMATION:** quartz arenite and quartz–feldspar wacke; minor beds of shale and conglomerate
ᴾUks Shale and micaceous siltstone; finely laminated
ᴾUkp Conglomerate, polymictic; lesser interbedded sandstone, siltstone, and shale
ᴾUkk Dolostone, grey to pink and finely laminated; minor shale

OFFICER BASIN

>900 Ma

Yeneena Supergroup

Throssell Group

ᴾTa — Sandstone, fine- to medium-grained and well-bedded; minor interbedded siltstone and shale

YENEENA BASIN

MESOPROTEROZOIC

*c.*1310 Ma

ᴾg | ᴾgef | ᴾgf | ᴾgl | ᴾgm | ᴾgt | ᴾgtp

ᴾg Granitoid rock, undivided
ᴾgef Granitoid rock, equigranular and fine-grained
ᴾgf Granitoid rock with feldspar phenocrysts; massive to strongly foliated
ᴾgl Leucogranite, medium- to coarse-grained; massive to weakly foliated
ᴾgm Leucogranite, coarse-grained with K-feldspar megacrysts; massive to weakly foliated
ᴾgt Biotite tonalite; medium-grained
ᴾgtp Plagioclase-phyric tonalite; medium-grained

ᴾfs — Feldspar–quartz–sericite schist; includes rocks possibly of volcanic origin; locally converted to hornfels adjacent to granitoid rocks

PALAEOPROTEROZOIC

1765–1790 Ma

Rudall Complex (stratigraphic succession incompletely determined)

ᴾRu — Metamorphosed ultramafic rock; chiefly serpentinite

ᴾRna | ᴾRnb | ᴾRnp | ᴾRns

ᴾRna Clinopyroxene- and quartz-bearing amphibolite; foliated; interlayered with felsic schist, fine- to medium-grained leucogranite, and very fine grained quartzite
ᴾRnb Quartz–feldspar–biotite(–muscovite) gneiss
ᴾRnp Quartz–mica schist; interlayered with felsic schist, fine- to medium-grained leucogranite, and very fine-grained quartzite
ᴾRns Mylonite; quartz–sericite(–K-feldspar–plagioclase–muscovite–biotite) rock

ᴾRga — Orthogneiss derived from porphyritic biotite granitoid rock; commonly contains K-feldspar augen

ᴾRq | ᴾRm | ᴾRi | ᴾRic | ᴾRk

ᴾRq Quartzite; commonly micaceous; thin intercalations of quartz–muscovite schist
ᴾRm Quartz–mica schist; metamorphosed argillaceous sedimentary rock
ᴾRi Metamorphosed banded iron-formation, metachert, and pyrite–graphite schist
ᴾRic Metachert and minor metamorphosed banded iron-formation
ᴾRk Tremolite marble, chondrodite marble, and calcite–quartz–muscovite rock

ᴾRan | ᴾRab | ᴾRam | ᴾRap

ᴾRan Meta-anorthosite and meta-leucogabbro; coarse- to very coarse grained; massive to foliated
ᴾRab Epidote- and quartz-bearing amphibolite; fine-grained
ᴾRam Clinopyroxene- and quartz-bearing amphibolite; foliated and locally gneissic
ᴾRap Amphibolite with plagioclase glomerocrysts

PATERSON OROGEN