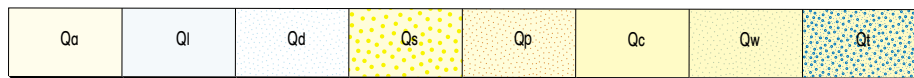


PHANEROZOIC

CAINOZOIC

QUATERNARY

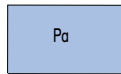


- Qa Alluvium — unconsolidated silt, sand, and gravel; in drainage channels and on adjacent floodplains
- Ql Lacustrine deposits — clay, silt, and silty sand; playa (saline) and claypan (fresh) deposits
- Qd Mixed lacustrine and eolian deposits — clay, silt and sand; vegetated swamps, numerous small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

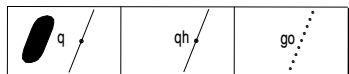


- Czk Calcrete — massive, nodular, and vuggy limestone, some surface silicification; in palaeodrainage lines
- Czc Colluvium — consolidated silt, sand, gravel; fluvialite, dissected by active channels
- Czz Silcrete and siliceous duricrust
- Czx Chert breccia developed over dolomite; overlies YANDANUNYAH FORMATION
- Czi Massive and pisolitic laterite, and ferruginous duricrust

PERMIAN



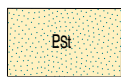
**Pa PATERSON FORMATION:** fine- to coarse-grained sandstone, siltstone and mudstone, some with dropstones; diamictite; fluvio-glacial deposits



- q Quartz veins and pods; various ages
- qh Quartz-hematite vein
- go Gossan, zone of gossanous rock

< 610 Ma

Savory Group



**Est TCHUKARDINE FORMATION:** medium- to coarse-grained sandstone, quartz wacke, siltstone, shale; minor conglomerate



- EUn **NOOLOO FORMATION:** thin-bedded to massive dolomite and limestone; minor thin-bedded, fine- to coarse-grained sandstone and siltstone
- EUns Interbedded fine- to coarse-grained sandstone, pebbly sandstone, wacke, and siltstone
- EUnh Red to purple weathering shale and siltstone

c. 800 Ma

Tarcunyah Group



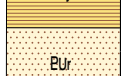
Altered pillowed mafic lava



**WONGARLONG FORMATION:** fine- to coarse-grained sandstone and orthoquartzite; minor siltstone and shale



Siltstone, silty shale, and shale



**YANDANUNYAH FORMATION:** laminated to thin-bedded dolomite; interbedded with minor stromatolitic dolomite, dolomitic siltstone, shale, and siltstone



**BROWNRIGG SANDSTONE:** white to grey, fine- to medium-grained quartz sandstone and medium- to coarse-grained sandstone with scattered pebbles



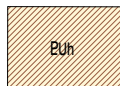
**WAROONGUNYAH FORMATION:** laminated to massive dolomite, stromatolitic dolomite, sandy dolomite, siliceous oolite, siltstone, and shale



**GOOGHENAMA FORMATION:** medium- to coarse-grained sandstone, and polymictic pebble to cobble conglomerate



Laminated to thin-bedded dolomite, dolomitic siltstone, and thin-bedded blue chert



**CHOORUN FORMATION:** red-brown, medium- to coarse-grained sandstone, pebbly sandstone, quartz wacke, nodule-bearing sandstone, polymictic pebble to cobble conglomerate and quartz pebble conglomerate

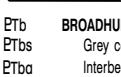
> 900 Ma

Yeneena Supergroup

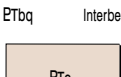
Throssell Group



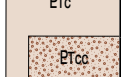
**ETb BROADHURST FORMATION:** grey shale, carbonaceous shale, siltstone, and fine-grained sandstone



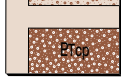
Grey carbonaceous shale and siltstone, sulfidic in part; graphitic schist, quartz-sericite schist, and phyllite in the Three Sisters Hills area



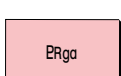
Interbedded fine- to coarse-grained sandstone, siltstone, silty shale, dolomite, and stromatolitic dolomite



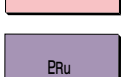
Interbedded fine- to medium-grained sandstone, siltstone and minor shale; scattered pyrite in places



**ETc COOLBRO SANDSTONE:** massive to thick-bedded sandstone; minor siltstone and shale



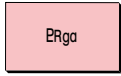
Quartz pebble and cobble conglomerate interbedded with coarse-grained sandstone with scattered pebbles



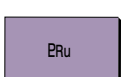
Basal polymictic conglomerate; pebble to boulder clasts, matrix supported

1765-1790 Ma

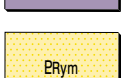
Ruddell Complex



Orthogneiss derived from porphyritic biotite granitoid; generally contains augen of K-feldspar



Metamorphosed ultramafic rock; mainly serpentinite



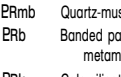
**ERym YANDAGOOGEE FORMATION**  
Quartz-muscovite schist; minor chert



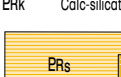
**ERm** Muscovite schist; metamorphosed argillaceous sedimentary rock



**ERmb** Quartz-muscovite-biotite schist; metamorphosed siltstone



**ERb** Banded paragneiss with interlayered quartzite, quartz-feldspar gneiss, quartz-muscovite schist, biotite schist, and para-amphibolite; metamorphosed sandstone, siltstones, and shale



**ERk** Calc-silicate gneiss and schist; metamorphosed carbonate rock and calcareous arenite



- ERs Psammitic paragneiss; includes fine-grained quartz-feldspar-muscovite gneiss, quartz-muscovite schist, and quartzite layers
- ERss Psammitic paragneiss; rare units of pelitic schist

PROTEROZOIC

CANNING BASIN

SAVORY BASIN

Yeneena Basin

PATERSON OROGEN