

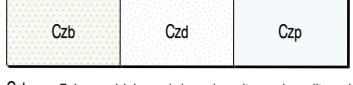
PHANEROZOIC

CAINOZOIC

QUATERNARY



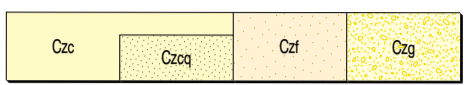
Qa Alluvium — clay, silt, sand, and gravel; in channels and on floodplains
 Qac Clay and silt in claypans



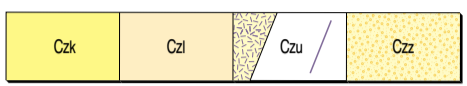
Czb Ephemeral lake and dune deposits — clay, silt, and sand; in drainage basins adjacent to playa lakes
 Czd Dune deposits — sand, silt, clay, gypsum, and carbonate; in low dunes adjacent to playa lakes
 Czp Playa deposits — saline and gypsiferous evaporites, clay, and sand in playa lakes



Cza Sheetwash deposits — clay, silt, and sand in extensive fans; commonly ferruginous
 Czs Sandplain deposits — unconsolidated sand and minor silt; includes stabilized dunes



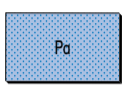
Czc Colluvium — silt, sand, and rock debris as slope deposits and proximal sheetwash; includes ironstone fragments
 Czcq Quartz vein rubble and debris
 Czf Ferruginous rubble — degraded lateritic duricrust, and ferruginous debris
 Czg Sand over granitoid rock — quartzofeldspathic sand



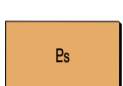
Czk Calcrete
 Czl Lateritic duricrust
 Czu Silica caprock over ultramafic rock
 Czz Silcrete

PALAEOZOIC

PERMIAN



Pa **PATERSON FORMATION:** sandstone, pebbly siltstone, and conglomerate



Es Conglomerate, quartz-rich sandstone, arkosic sandstone, and microbial laminates; commonly silicified and brecciated

Earraheedy Group



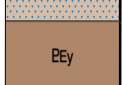
CHIALL FORMATION
 Wandiwarra Member: siltstone and shale, and subordinate sandstone



WINDIDDA FORMATION: limestone and shale



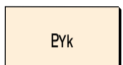
FRERE FORMATION: granular iron-formation, ferruginous siltstone, and shale; minor banded iron-formation and chert



YELMA FORMATION: sandstone, shale, and minor conglomerate

Yerrida Group

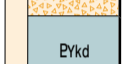
Mooloolool Subgroup



KILLARA FORMATION: undivided mafic intrusive and extrusive rocks (simplified geology only)



Bartle Member: chertified microbial laminates with barite and anhydrite nodules

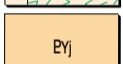


Medium- to coarse-grained dolerite dykes and sills



Aphyric tholeiitic basalt

Windplain Subgroup



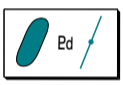
JUDERINA FORMATION: quartz sandstone; local siltstone, chert breccia, and conglomerate



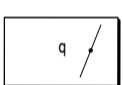
Bubble Well Member: stromatolitic chert and chert breccia; minor dolomite



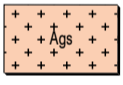
Finlayson Member: quartz arenite and subordinate siltstone; planar-bedded or cross-stratified; commonly ripple-marked



Mafic dyke

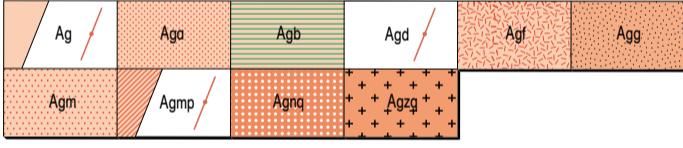


Quartz vein



Ags Syenite (simplified geology and subsurface)

Agz Monzonite (subsurface only)

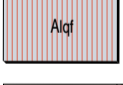


Ag Granitoid rock, undivided
 Aga Fine-grained granitoid rock
 Agb Foliated granitoid rock with interleaved mafic rock
 Agd Diorite and quartz diorite
 Agdq Quartz diorite and quartz monzodiorite (subsurface only)
 Agf Foliated granitoid rock
 Agg Granodiorite
 Agm Biotite monzogranite
 Agmh Hornblende monzogranite (subsurface only)
 Agmp Porphyritic biotite monzogranite
 Agnq Granitoid rock and quartzofeldspathic gneiss; minor calc-silicate gneiss and mafic gneiss
 Agzq Hornblende quartz monzonite; minor quartz diorite

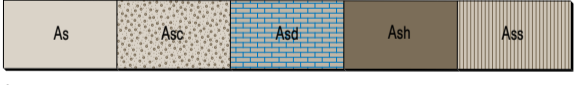


Angb Interlayered quartzofeldspathic gneiss, monzonite, and metamorphosed mafic rock

Anq Quartzofeldspathic gneiss, commonly with diffuse layering



Quartz-feldspar schist



As Metamorphosed sedimentary rock, undivided; includes minor felsic volcanoclastic rock
 Asc Polymictic conglomerate; metamorphosed
 Asd Dolomite; metamorphosed
 Ash Shale, and minor siltstone and sandstone; metamorphosed
 Ass Sandstone and minor siltstone; metamorphosed



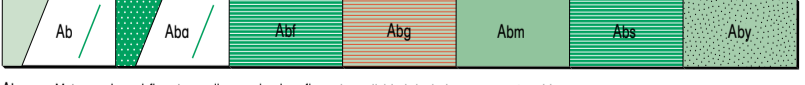
Ac Chert and banded chert; metamorphosed
 Aci Banded iron-formation; metamorphosed



Af Metamorphosed felsic rock, undivided
 Afdp Porphyritic dacite; metamorphosed
 Afi Intermediate volcanic rock; metamorphosed
 Afp Porphyritic felsic rock; metamorphosed
 Afs Felsic schist
 Aft Felsic tuff; metamorphosed



Aog Metagabbro
 Aogf Strongly foliated gabbro; metamorphosed
 Aogo Olivine gabbro; metamorphosed



Ab Metamorphosed fine- to medium-grained mafic rock, undivided; includes some metagabbro
 Aba Amphibolite; generally fine- to medium-grained
 Abf Strongly foliated metamorphosed mafic rock
 Abg Strongly foliated metamorphosed mafic rock interleaved with minor foliated granitoid rock
 Abip Porphyritic basaltic andesite; metamorphosed (subsurface only)
 Abm High-Mg basalt; commonly with pyroxene-spinifex and variolitic textures; metamorphosed
 Abs Mafic schist; chlorite-rich schist, probably after high-Mg basalt
 Aby Amygdaloidal basalt; metamorphosed



Au Metamorphosed ultramafic rock, undivided
 Aup Peridotite; metamorphosed
 Aus Serpentinized ultramafic rock
 Aut Talc-chlorite(-carbonate) schist
 Aux Pyroxenite; metamorphosed

ARCHAIC

EARRAHEEDY BASIN

YERRIDA BASIN

YILGARN CRATON