

PHANEROZOIC

CAINOZOIC



**Colluvial units**  
*C* Colluvium; silt, sand, and gravel deposited on proximal slopes  
*Cr* Ferruginous colluvium typically developed on slopes adjacent to iron formation

**Sheetwash units**  
*W* Silt, sand, and gravel deposited on low-gradient slopes with no clear channel pattern  
*Wf* Ferruginous sheetwash, derived largely from adjacent ferricrete and ironstone areas  
*Wkk* Calcareous sheetwash, derived from adjacent carbonate rocks  
*Wp* Clay and silt in claypans on sheetwash

**Alluvial units**  
*A* Clay, silt, sand, and gravel deposited in channels and adjoining areas within channel systems  
*Apc* Clay and silt in claypans  
*Ak* Calcrete associated with palaeodrainage and active drainage systems; includes calcrete now associated with lakes

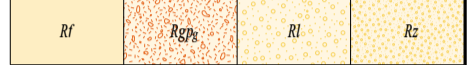


**Lacustrine units**  
*L* Clay, silt, and sand in saline playa lakes  
*Lm* Clay, silt, and sand in mixed dune-and-playa terrain associated with lacustrine systems  
*Ld1* Active dune systems adjacent to playa lakes, typically non-vegetated and gypsiferous; first generation

**Sandplain unit**  
*S* Sand and subordinate silt of eolian and probable residual origin in sandplain; includes minor small dunes; sand reddened by iron-oxide coatings



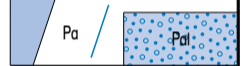
**Lacustrine unit**  
*Ld2* Stabilized dunes adjacent to playa lakes, typically vegetated; second generation



**Residual or relict units**  
*Rf* Ferruginous duricrust; nodular, pisolitic, and massive ferricrete, and associated debris  
*Rgp* Saprolite overlying granitoid rock  
*Rl* Ferricrete, including underlying saprolite, developed largely on mafic igneous rocks  
*Rz* Siliceous duricrust; intensely silicified rock, variably ferruginous



**Relict unit**  
*Rls* Siliceous duricrust with occasional boulders; probably relict Permian land surface



**Pa PATERSON FORMATION:** poorly sorted sandstone, claystone, and conglomerate; glauconite to fluvioglacial  
**Pal** Boulder lag, polymictic, clay matrix commonly absent; underlying Proterozoic rock commonly exposed



*q* Quartz vein  
*qs* Quartz stockwork veining and silicification of wallrock

PALAEOZOIC

PERMIAN

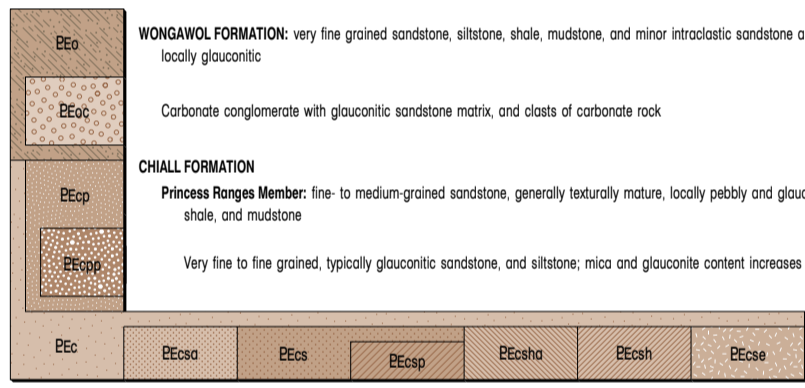
GUNBARREL BASIN

PROTEROZOIC

PALAEOPROTEROZOIC

Eraheedy Group

Miningarra Subgroup



**WONGAWOL FORMATION:** very fine grained sandstone, siltstone, shale, mudstone, and minor intraclastic sandstone and carbonate rock breccia; locally glauconitic  
 Carbonate conglomerate with glauconitic sandstone matrix, and clasts of carbonate rock

**CHIALL FORMATION**  
**Princess Ranges Member:** fine- to medium-grained sandstone, generally texturally mature, locally pebbly and glauconitic; subordinate siltstone, shale, and mudstone  
 Very fine to fine grained, typically glauconitic sandstone, and siltstone; mica and glauconite content increases upwards

*Eec* Undivided sandstone, siltstone, shale, mudstone, and carbonate rock breccia  
*Eecsa* Fine to very fine grained sandstone, siltstone, and shale; glauconitic ferruginous chert peloids common towards the base; locally calcareous  
*Eecs* Fine- to medium grained, locally glauconitic sandstone, shale, and siltstone  
*Eecsp* Fine- to medium-grained glauconitic sandstone, shale, and siltstone  
*Eecsha* Shale, mudstone, and siltstone, and minor very fine-grained sandstone  
*Eecsh* Shale, mudstone, and siltstone  
*Eecse* Ferruginous, glauconitic sandstone and conglomerate, with clasts of carbonate rock or ferruginous sandstone, in a matrix of calcarenite to ferruginous glauconitic sandstone



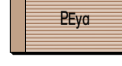
**EEd WINDIDDA FORMATION:** stromatolitic carbonate rock, minor shale, and siltstone, jasper, and peloidal jasper  
*EEj* Stromatolitic carbonate rock and shale with peloidal jasper  
*EEh* Shale, mudstone, and minor siltstone



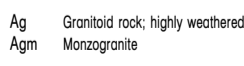
**EEf FRERE FORMATION:** granular iron-formation, granular siliceous iron-formation, siltstone, shale, jasper, and chert  
*EEfg* Granular iron-formation and granular siliceous iron-formation; minor siltstone, shale, jasper, and chert  
*EEgz* Granular siliceous iron-formation  
*EEfs* Siltstone and shale; minor iron-formation  
*EEfsc* Siltstone, shale, and chert; minor iron-formation  
*EEfsj* Siltstone, shale, and jasper; minor iron-formation



*EEyst* Siltstone, shale, and mudstone, with minor sandstone; commonly ferruginous



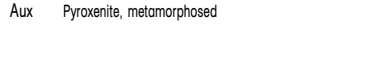
**YELMA FORMATION:** sandstone, siltstone, and shale; shallow marine to fluvial deposits  
*EEya* Sandstone, coarse-grained and locally pebbly



*Ag* Granitoid rock; highly weathered; undivided  
*Agm* Monzogranite



*Aci* Banded iron-formation, metamorphosed



*Aog* Gabbro, metamorphosed  
*Abk* Komatiitic basalt, pyroxene spinifex textured; metamorphosed  
*Aux* Pyroxenite, metamorphosed

Eraheedy Basin

YILGARN CRATON