

PHANEROZOIC

QUATERNARY

Qa Alluvium—clay, silt, sand, and gravel in stream channels, flood plains, and small fans on lake margins

Czts Saline and gypsiferous evaporite deposits interbedded with sand and clays in playas

Cztd Quartz sand and gypsum dune deposits adjacent to playas

Czcs Saline and gypsiferous evaporite deposits interbedded with sand and clays in playas

Cztd Quartz sand and gypsum dune deposits adjacent to playas

Czc Colluvium—gravel, sand, and soil; may include laterite debris

Czg Quartz- and feldspar-rich sands developed from underlying granitoid rock

Czy Feldspar-rich sands developed from underlying Proterozoic dykes

Czl Laterite and ferruginous deposits—mainly ferruginous laterite and minor siliceous laterite; includes denuded ferricrete

TERTIARY

Tes **EUNDYNE GROUP:** sandstone, siltstone, mudstone, spongilitic siltstone, calcareous siltstone, bioclastic calcarenite, bituminous siltstone; includes poorly indurated laterized caprock; Eocene

PROTEROZOIC

Edy Mafic and ultramafic dykes; inferred from aeromagnetic data and air photo lineaments where dashed

Edjn Norite in **JIMBERLANA DYKE**

Edjx Pyroxenite in **JIMBERLANA DYKE**

q—Quartz vein; **q**—Major auriferous quartz veins; inferred or concealed by tailings where dashed: **Cro** — Crown reef; **Mar** — Mararoa reef; **Nor** — Norseman reef

Dykes: **p**—pegmatite, **g**—granitoid, **a**—aplite

Ag Granitoid rock, undivided

Agg Granodiorite

Agm Monzogranite

Agy Syenogranite

Aggb **BULDANIA GRANITOID COMPLEX:** major composite batholith; limited outcrop dominated by seriate biotite-hornblende granodiorite

Aggp **PIONEER GRANITOID COMPLEX:** monzogranite; part of monzogranite-orthogneiss complex

Agmt **THEATRE ROCKS MONZOGANITE:** subequigranular, fine- to medium-grained biotite monzogranite to granodiorite

Agmg **GOODIA MONZOGANITE:** equigranular, fine- to medium-grained biotite monzogranite to granodiorite with strongly foliated margins (Agn)

Agmd **LAKE DUNDAS MONZOGANITE:** sub-equigranular, medium- to coarse-grained biotite monzogranite

Agtb **LAKE BRAZIER TONALITE:** highly variable biotite and hornblende-bearing tonalite to granodiorite

post-D₂ to syn-D₃ (diapiric)

'late tectonic'

Agn Gneissic granitoid; generally occurs marginal to central monzogranite plutons; local mafic enclaves

An Complexly deformed, massive and foliated quartzo-feldspathic rocks; gneissic in part; contains minor calc-silicate and mafic components

Ano Orthogneiss; interleaved with amphibolite

Apf Felsic dyke; commonly with quartz and/or feldspar phenocrysts

As Clastic sedimentary rock, undivided; local conglomerate beds

Asf Felsic volcanoclastic rock, coarse- to fine-grained; includes minor andalusite-mica schist

Asq Cream and brown, layered, foliated and mylonitic quartzite and associated fine-grained siliceous rocks

Asp Polymictic conglomerate and breccia

Ash Grey- black shale and slate, partly silicified; common as interflow sedimentary rocks

Asn Clastic and sedimentary rocks: includes polymictic conglomerate (locally important felsic volcanoclastic component and associated massive iron sulphide body), pelite (biotite-andalusite and garnet-magnetite-biotite rocks), and para-amphibolite (grunerite and hornblende schists)

Asnf Ferruginous sandstone, green quartzite, mica schist

Aci Banded iron-formation—layered quartz-hematite-magnetite rock; massive and layered gossanous ironstone

Acs Chert and fine-grained siliceous sedimentary rocks (shale and mudstone)

Acw Grey-white banded chert and rare jasper, locally iron-rich; includes silicified grey-black shale, siliceous mylonite and minor shale and slate (Ash)

Acws Ferruginous schist

Acb Brown, fine-grained quartzo-feldspathic rock associated with grey-white banded chert; includes local banded chert pebbles

Acc Conglomerate and breccia with chert clasts and fine-grained siliceous matrix

Af Felsic volcanic and/or volcanoclastic rocks; deformed

Afr Banded quartz-phyric rhyolite

Afs Quartz-muscovite schist

Aod Dolerite dykes and sills

Aodp Feldspar-phyric dolerite

Aog Gabbro

Aogm Gabbro in the **MISSION SILL**

Aogt Gabbro in the **MOUNT THIRSTY SILL**; minor granophyric and quartz gabbro (x^xx)

Ab Massive and pillowed basalt, fine- to medium-grained; includes doleritic- to gabbroic-textured interiors in thicker units, local variolitic textures, and a significant intrusive component present as sills and dykes near the base of the mafic pile

Abb Massive and pillowed basalt, fine- to medium-grained; minor intrusive dolerite; local variolitic textures in pillowed basalt

Abd Doleritic- to gabbroic-textured basalt, weakly to moderately foliated; pillow structures preserved locally

Abi Pillow basalt

Abm High-Mg basalt, medium- to coarse-grained, amphibole spinifex textured (basaltic komatiite)

Abx Basaltic fragmental rock, includes hyaloclastite peperite and related volcanogenic rock

Ama Amphibolite, pervasively foliated; plagioclase-amphibole(-garnet) rock; gabbroic textures are preserved locally in low strain domains

Amg Amphibolite with significant amounts of interleaved deformed granitoid and massive to foliated quartzo-feldspathic rock

Ams Mafic and ultramafic schist; chlorite-rich

Aml Banded hornblende-plagioclase amphibolite

Amh Grunerite-hornblende-magnetite-plagioclase rocks; moderately to weakly foliated

Au Ultramafic rock, undivided; includes massive serpentinite and talcose rocks

Aus Massive, fine-grained serpentinite

Auk Komatiite characterized by platy olivine spinifex texture; serpentinitized

Aup Peridotite with olivine orthocumulate texture; includes subordinate komatiite (Auk)

Aupm Peridotite in the **MISSION SILL**

Aupt Peridotite in the **MOUNT THIRSTY SILL**

Aux Pyroxenite; includes cumulates and minor tremolite chlorite schist

Auxm Pyroxenite in the **MISSION SILL**

Auxt Pyroxenite in the **MOUNT THIRSTY SILL**; includes dunite and olivine bronzite layers and minor peridotite

Metamorphosed to greenschist - amphibolite transition to amphibolite facies