

HYDEN
GEOLOGICAL SURVEY OF WESTERN AUSTRALIA

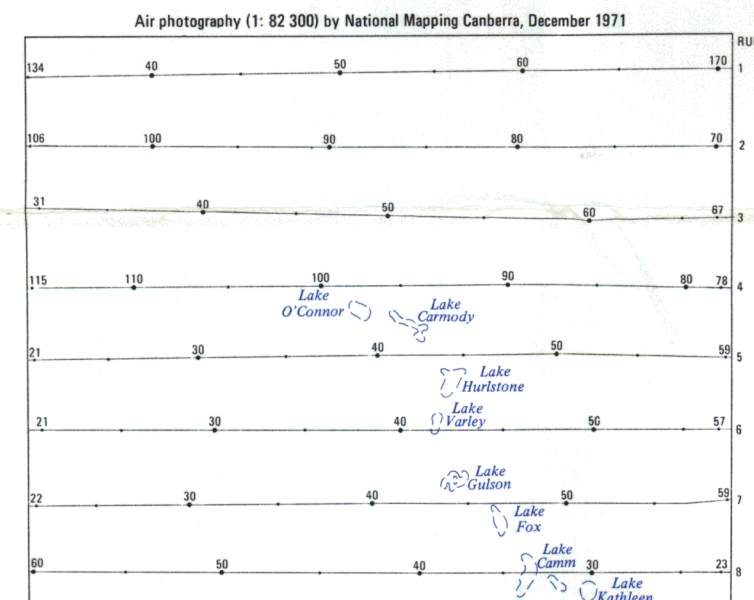
AUSTRALIA 1:250 000 GEOLOGICAL SERIES

SHEET SI 50-4

SYMBOLS

- Geological boundary
Fault, accurate
Fault, multiple
Bedding (being not implied)
vertical
Air photo lineament or trend line
Crevasse and fracture cleavage
Metamorphic foliation
inclined
vertical
undermined
Lineation (crystal alignment)
Primary igneous foliation
inclined
vertical
undermined
Compositional layering in gneissoids
inclined
vertical
undermined
- Mineral field boundary
Formed road
Track
Railway (3' 3") with station or siding
Township, bounded
population less than 1000
Locality
Landing ground
Horizontal control - minor
Bench mark, height accurate
- Watercourse, intermittent
Tank
Dam
- Mining centre
Gold mine, abandoned
Quarry
Prospect
Mineral occurrence
Gold
Graphite
Nickel
Crushed rock aggregate

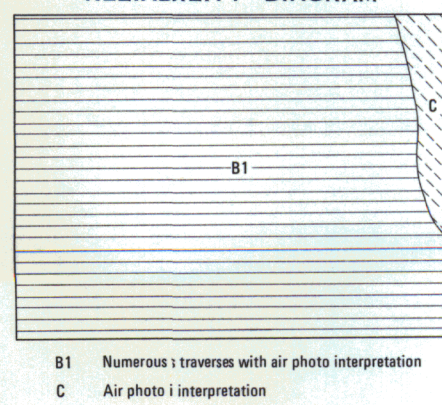
FLIGHT DIAGRAM



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RELIABILITY DIAGRAM



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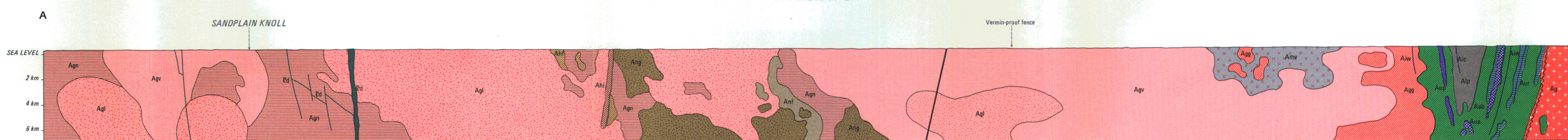
SCALE 1:250 000

TRANSVERSE MERCATOR PROJECTION
GCS AUSTRALIAN MAP GRID

DIAGRAMMATIC SECTION

NATURAL SCALE

SECTION A-B



REFERENCE

- Quaternary
Qa Alluvium - silt, sand and gravel in stream and channel areas
Qd Lacustrine deposits - silt and gyttja-rich clay and silt in play lake basins
Qe Eolian and eolian deposits - silt and sand, gyttja-rich in part, adjacent to play lake systems
Qf Colluvium and alluvium - red-brown clay and silt derived from mafic amphibolites
- Cenozoic
Cg Basement and/or - yellow and white sand containing locally abundant ironstone pebbles - derived from Cg
Cg1 Nodular calcarenite - sandy limestone in lenses and sheets adjacent to Cg and Cg2
Cg2 Limestone - limestone cemented duricrust overlying deeply weathered bedrock, minor siliceous
Cg3 Siliceous - subvolcanic silica-cemented duricrust characterized by embayed quartz clasts; commonly part of laterite profile
Cg4 Siliceous and ironstone cement - chertoid silica and siliceous ironstone duricrust over streambed rocks
Cg5 Deeply weathered bedrock - leached, kaolinized zone of duricrust profile with remnant bedrock structure and texture

- Tertiary
Tg1 Dolomite and gabbro dyke
Tg2 Quartz vein
Tg3 Pyroxene vein

- Proterozoic
Pg1 Granitoid, interpreted from air photo
Pg2 Medium and coarse-grained porphyritic granite and adamellite
Pg3 Variable textured, medium and coarse-grained mafic granite and adamellite; locally porphyritic
Pg4 Fine and medium-grained, micaceous-bearing granite and adamellite
Pg5 Foliated medium and coarse-grained biotite granite and adamellite

- Archaean
Ar1 Recrystallized coarse, even-grained and various granite and adamellite; common biotite schist and textural layering
Ar2 Recrystallized, foliated even-grained and mafic granite and adamellite; common biotite schist and textural layering
Ar3 Fine to medium-grained leucocratic granitoid of granite and, rarely adamellite composition; local relic foliation
Ar4 Banded gneiss of gneiss to granodioritic composition, recrystallized to granoblastic texture, commonly veined by Ar1

- Ar5 Mixed gneissoid composed of a granoblastic or gneissic phase (Ar1, Ar2 and Ar3) extensively intruded by various or porphyritic adamellite (Ar4, Ar5)
Ar6 Migmatite with mafic and metasedimentary granitic palaeosome and leucocratic granitic neosome
Ar7

- Ar8 Banded chert
Ar9 Banded iron-formation, quartz-gneiss-magnetite rock

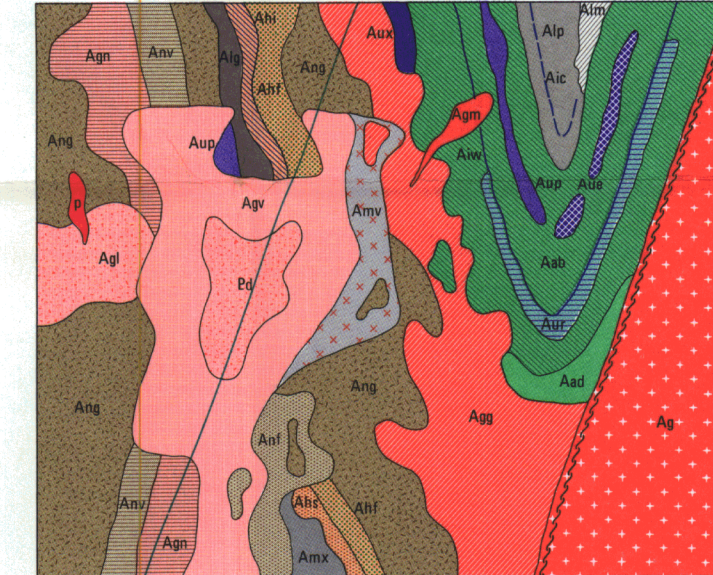
- Ar10 Metacrystalline quartz schist, commonly contains biotite, garnet, muscovite and cordierite; metamorphosed shale and siltstone
Ar11 Quartz (vein) schist and micaceous quartzite; metamorphosed siltstone and sandstone
Ar12 Graphite-muscovite schist and phyllite

- Ar13 Fine and medium-grained mafic amphibolite and metagabbro
Ar14 Medium and coarse-grained mafic amphibolite and metagabbro

- Ar15 Tremolite (chlorite) schist
Ar16 Serpentinized, derived from peridotite
Ar17 Talc-carbonate metacrystalline schist
Ar18 Coarse-grained amphibole (chlorite) schist derived from pyroxenite

- Ar19 Pyroxene-gabbro (amphibolite) granitoid; derived from mafic rock
Ar20 Quartz-hyporthese granitic-magnetite granitoid; derived from banded iron-formation
Ar21 Quartz-phyllosilicate-hyporthese granitoid; derived from felsic sediment or volcanic

DIAGRAMMATIC RELATIONSHIP OF ROCK UNITS



DECLINATION DIAGRAM



The time interval magnetic declination, 1960 to 1980, is constant at 11° 30' E. This is based on the fact that the declination is constant at 11° 30' E from 1960 to 1980. The declination is constant at 11° 30' E from 1960 to 1980. The declination is constant at 11° 30' E from 1960 to 1980.

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DEPARTMENT OF MINES
WESTERN AUSTRALIA

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