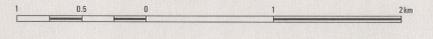


# MAP 12. GEOLOGY OF THE D'AGUILAR RANGE AREA

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SCALE 1 : 25 000



- QUATERNARY**
  - Qa Talus, scree and other slope deposits. Main quartz-derived deposits indicated (Qtz).
  - Qb Younger alluvium and swamp deposits.
  - Qca Older alluvial gravels, mainly on raised terraces developed on Tertiary deposits. Gradational relationship to younger alluvium. Some Tertiary exposed on narrow scarp. Probably mainly Pleistocene.
  - Qcb Older alluvial fan deposits associated with steep slopes.
- TERTIARY**
  - Ts Semi-consolidated interbedded sands, pebble-cobble gravels, silts and clays. Thin mantle of younger slope and terrace deposits in some areas.
  - Tca Overprint indicates areas of coarse bouldery deposits with clasts to 5m + (Tcb). Mostly developed near graben margins, with clasts of local derivation.
- SILURO-DEVONIAN**
  - S0 Undifferentiated sandstone, siltstone and shale. Facies/flow siltstone and sandstone at CB041882 is correlative of Florence Sandstone.
- ORDOVICIAN**
  - Gg Limestone with some associated siltstone and sandstone.

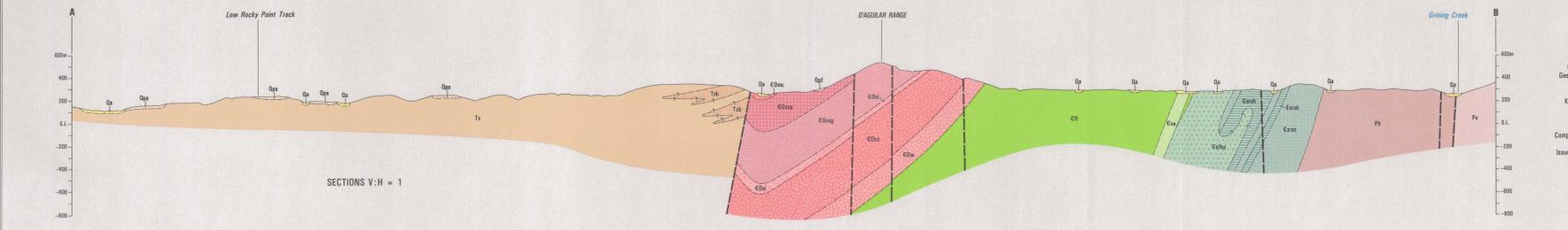
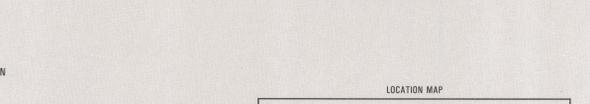
- SILICICLASTIC SEQUENCE — CORRELATE OF OWEN CONGLOMERATE & DENISON GROUP**
- C10a Grey to pink well-sorted sandstone and short-bedded gritty sandstone. Commonly lenticular, with fossiliferous horizons.
  - C10b Pink thickly bedded to massive pebble-cobble conglomerate with minor sandstone.
  - C10c Mainly pink trough cross-bedded sandstone with intercalations of pebble conglomerate.
  - C10d Grey trough cross-bedded micaceous sandstone with some granule pebble conglomerate and minor siltstone.
  - C10e Thinly bedded micaceous siltstone and sandstone (E2D). Minor lenticular.
  - C10f Grey to pink granule pebble to pebble-cobble conglomerate with interbedded sandstone and minor siltstone (E2D).
  - C10g Mainly black pyritic shale and siltstone (E2D), with upper unit of micaceous siltstone and sandstone in some areas.
  - C10h Mainly volcanoclastic conglomerate and sandstone with minor siltstone.

- FELSIC TO INTERMEDIATE VOLCANICS AND RELATED SEQUENCES — CORRELATES OF MT READ VOLCANICS**
- C11a Dominantly cream to pink felsic lava (quartz-feldspar-biotite-phyric) with minor intercalated epiclastic rocks and lava breccias (E2).
  - C11b Felsic volcanoclastic and epiclastic rocks, well bedded to poorly bedded, fine to coarse grained (E2).
  - C11c Siliciclastic breccia conglomerate unit, with quartzite clasts to 20cm. Strongly fractured and recrystallized.
  - C11d Quartz-feldspar biotite-phyric lava and/or intrusive.
  - C11e Laminated to thinly bedded siltstone, sandstone and shale, partly siliciclastic, partly volcanoclastic.
  - C11f Poorly bedded to massive grey siliciclastic sandstone and granule-pebble conglomerate.

- CAMBRIAN INTRUSIVE ROCKS**
- C12a Quartz-feldspar biotite porphyry, coarse grained.
  - C12b Fine to medium grained quartz-feldspar-biotite-phyric lava and/or intrusive.
- PRECAMBRIAN**
- P1 Undifferentiated quartzite, phyllite, schist.
  - P2 Massive to banded quartzite and quartz + white mica + chlorite + feldspar + tourmaline + garnet + biotite schist. Upper greenschist facies or higher.

- Quartz vein with dip where known.
- Geological boundary — accurate or approximate.
- Geological boundary — inferred or concealed.
- Trace of form surface or strike line.
- Fault — accurate or approximate.
- Fault — inferred or concealed.
- Axial surface trace of major anticline, syncline; plunge indicated.
- Minor fold with plunge, antiform, synform, unspecified.
- Strike and dip of bedding — facing known, unknown, overturned, vertical.
- Strike and dip of flow banding, vertical.
- Strike and dip of dominant cleavage, vertical; parallel cleavage and bedding.
- Strike and dip of earlier or dominant cleavage in Precambrian rocks; S2: parallel cleavage and bedding.
- Trend and plunge of minor folds in Precambrian rocks — late folds, unspecified.
- Plunge and azimuth of extension lineation.
- Strike and dip of jointing, vertical.
- Strike and dip of shear bands or slick bands overprinting S1; other S2.
- Field station for adjacent readings on map.
- Fossil locality.
- Plant fossil locality (localised wood, rare amber).
- Isolated occurrence of dolomite clasts.
- Scarp associated with alluvial terraces.
- Major access track — suitable for tracked vehicles only.
- Minor access track.
- Exploration grid line.

- RESPONSIBILITY DIAGRAM**
- 1: 1:10 000 scale mapping, with some air-photo interpretation — J. Bradbury.
  - 2: 1:10 000 scale mapping, with some air-photo interpretation — J. Pemberton, with some additional information from K. D. Corbett.
  - 3: 1:10 000 scale mapping, with some air-photo interpretation — M. Vicary.
  - 4: Limited traverses at 1:10 000 scale by K. D. Corbett and M. Vicary, plus air-photo interpretation by M. Vicary, K. D. Corbett and J. Pemberton.
  - 5: 1:10 000 scale mapping by J. Bradbury, K. D. Corbett and M. Vicary, with air-photo interpretation by M. Vicary.
  - 6: Ground mapping with helicopter by K. D. Corbett and J. Bradbury, with air-photo interpretation by J. Pemberton, M. Vicary and K. D. Corbett.
  - 7: Limited creek traverses by J. Pemberton, M. Vicary and K. D. Corbett.
  - 8: Air-photo interpretation by K. D. Corbett.



Base map redrawn from 1:25 000 maps supplied by the Department of Environment and Planning.  
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