**LEGEND**

- **SCALE**: 1:20 000
- **Elevation in metres above sea level.**
- **Topographic contours (metres above sea level)**
- **Roads**
- **Limit of outcrop**

**SYNCLINE:** upright, inclined

**SYNFORMAL CONTOURS:** concave-down, concave-up

**DISCONTINUOUS CONTOURS:** blank

**STRATIGRAPHIC OR INTRUSIVE CONTACTS:**

- **Dyke attitude**
  - \(K\)
  - \(KB\)
  - \(SBd\)
  - \(SBs\)
  - \(t\)

**SPENCES BRIDGE GROUP**

- Shallow intrusive units: hornblende tonalite (with hornblende xenoliths), locally cross-cutting by late aplitic dykes, and hornblende dacite to olivine-pyroxene basalt.
- Dykelets of the Murray dyke swarm: north-striking and dip steeply to the east, with hornblende tonalite xenoliths and late aplitic dykes, and hornblende dacite to olivine-pyroxene basalt.

**FORMATION:**

- Pimainus Formation: red, purple and brown weathering amygdaloidal basalt and porphyritic basaltic andesite, and volcanic breccias, with quartz- and feldspar-rich extrusive rocks, and minor clasts of slate, meta-sedimentary and gneissic rocks, supported, rounded, moderately to poorly sorted, with arkosic matrix.
- Vulture rhyolite dykes: orange- to bluish black-weathering plagioclase and pyroclastic debris, minor discontinuous sedimentary units.
- Curnow dykes: medium greyish-green weathering, dark blueish to greenish gray hornblende andesite, with clasts of gneiss and meta-sedimentary rocks.
- Shetland hornblende andesite dykes: orange weathering, black, aphyric trachyandesite with rare zircon phenocrysts and minor heat-affected clasts, and field- and petrographic-determined heat-affected clasts, and rare rare earth element (REE) enrichment.

**CONCOLORIC FLOW鲱??**

- Alluvium, colluvium, and glacial deposits:
- Pimainus Formation volcanic rocks:
- Coniacian volcanic rocks, such as Silverquick or Goatwall andesitic dykes and sills. Possibly related to Cenomanian to Turonian volcanic activities.
- Andesitic dykes and sills:
- Orange-weathering, black, aphyric trachyandesite with rare zircon phenocrysts and minor heat-affected clasts, and field- and petrographic-determined heat-affected clasts, and rare rare earth element (REE) enrichment.

**ENCRYSTALIZATION ASSOCIATIONS:**

- \(c\)
- \(r\)

**ISOTOPIC AGES OF UNITS IN THE SPENCES BRIDGE AREA:**

- **Mesozoic**
  - Jurassic: 130.7 Ma, 10.7 Ma
  - Cretaceous:
    - Hauterivian: 157.3 Ma
    - Aptian: 152.1 Ma
    - Albian: 129.4 Ma
    - Cenomanian: 125 Ma
    - Turonian: 113 Ma
    - Coniacian: 103.7 Ma

**STRATIGRAPHIC OR INTRUSIVE CONTACTS:**

- **Dyke attitude**
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  - \(SBs\)
  - \(t\)

**Schematic Stratigraphic Column**

- **Age**
- **Unit**
- **Isotopic age determinations**

**Isotopic Age Determinations**

- **MSWD**
- **Ar release fractions**
- **Ar release**
- **Zircon**

**Cross section legend**

- **Geological units**
- **Structural lines**
- **Legend elements**

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**Scale 1:20 000**