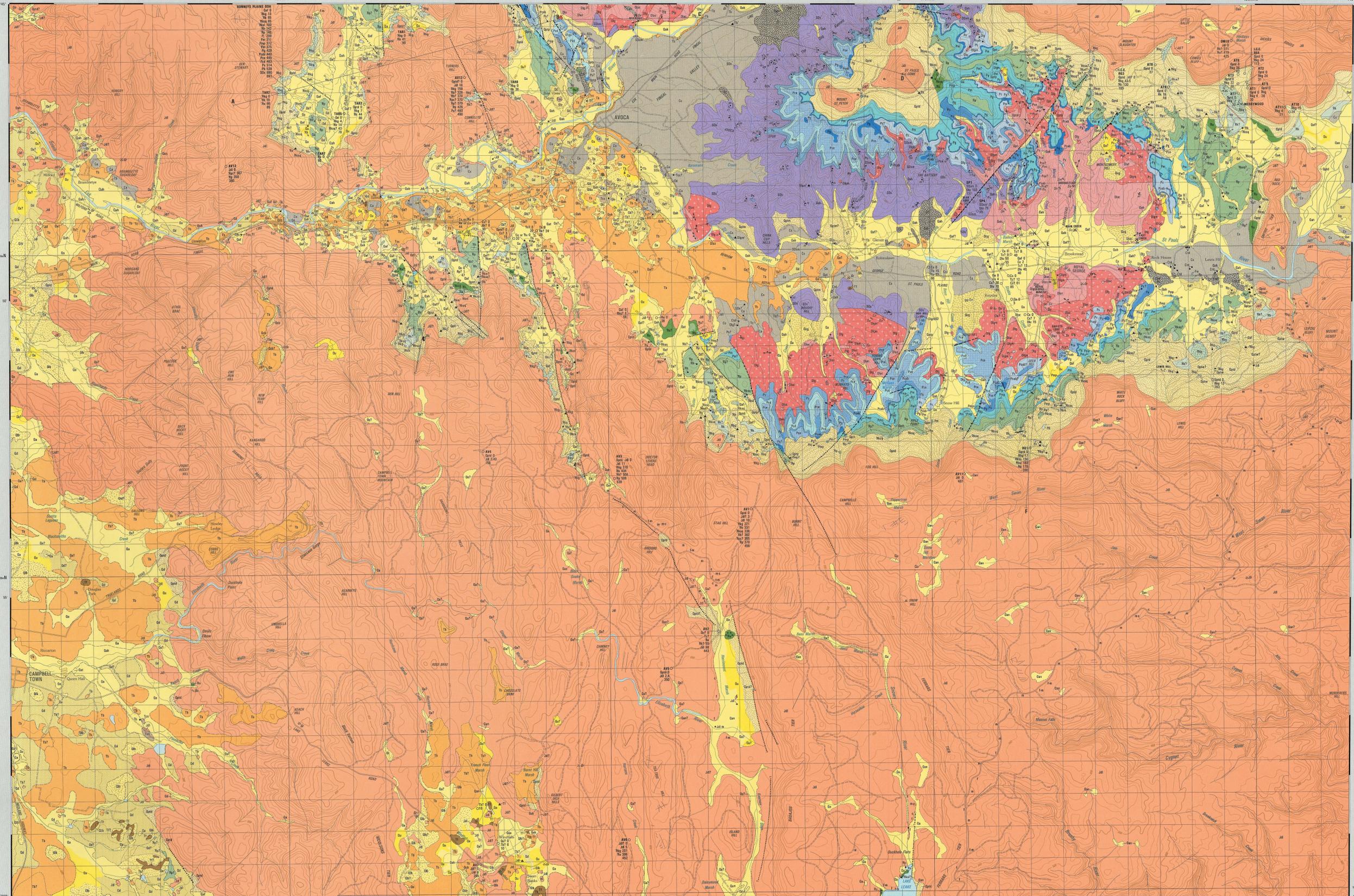


SNOW HILL

SCALE 1:50 000



REFERENCE

QUATERNARY

- Qm: Mine tailings and man-disturbed ground.
- Qa: Alluvium, marsh and lacustrine lake deposits; on modern flood plains locally associated with windblown deposits (Qak) on higher terraces (Qal); forming fans (Qaf); highland marsh deposits (Qam).
- Qd: Aeolian dune and sheet deposits, including locally derived sand and silt.
- Qc: Colluvium of quartz-grained gravel derived from granitic rocks (Qcg); colluvium derived from basalt (Qcb).
- Ql: Lag deposits consisting dominantly of Tertiary ferruginous fragments (Qlf); of Tertiary porphyritic fragments (Qlp); of mixed Tertiary ferruginous and siliceous fragments (Qls).
- Qt: Tuffs and scoria, consisting dominantly of dolerite (Qtd); of Upper Permian quartz sandstone (Qts); of Lower Permian rocks (Qtl); of Murchison beds rocks (Qtm); of dolerite and subordinate Upper Permian quartz sandstone (Qtn); of dolerite and volcanic rocks (Qtv); of dolerite and tuff and tuffaceous sands (Qtt).

CAMBRIAN

- Cb: Tuffs and possible alluvial deposits, consisting dominantly of large dolerite boulders (Cb1).
- Ca: Aeolian, alluvial and colluvial deposits in floors of major valleys, with basement thinly covered in some areas.
- Cs: Alluvium of dominantly quartzite gravels to cobble-sized clasts; deposits of boulder-sized clasts indicated (Cb1).

TERTIARY

- Tf: Ferruginous.
- Tu: Basalt (Tu); with agglomerate (TuA) (RP 494617) (Tu).
- Tc: Mafic sandstone, quartzite granule sandstone and conglomerate with the coarse beds indicated in places (Tc); (Tc1) (RP 494617) (Tc).

MESOZOIC

TRIASSIC

- Tr: Sandstone predominantly of lithic sandstone (Tr); mafic sandstone indicated in some places (Tr1); Upper Permian (Tr2) of fine to very coarse-grained subarkosic lithic sandstone with subordinate carbonaceous mudstone, coal seams, lenticled wood and in upper parts thin layers and interbedded clasts.
- Tr3: Lower Permian (Tr3) of usually fine to medium-grained lithic sandstone (indicated in some localities) — Basal quartz sandstone indicated in some localities — (Tr3); and mudstone with occasional carbonaceous beds. Locally quartz sandstone and/or lithic sandstone may be absent.
- Tr4: Quartzite sandstone.
- Tr5: Freshly metamorphosed quartz sandstone, minor granule sandstone, siltstone and mudstone, mudstone indicated in some localities (Tr5).
- Tr6: Interbedded feldspathic quartz sandstone, siltstone and mudstone, present in bare hills (RP 517710).
- Tr7: Poorly sorted grey mudstone, siltstone and rare sandstone, unfossiliferous except for rare Foraminifera. Bed of sandy sandstone. (Tr7) — (Tr7) (RP 517710).
- Tr8: Thick bedded, usually poorly-sorted, poorly sandstone passing up into interbedded sandstone, siltstone and mudstone. Massive fossils present in places. (Tr8) — (Tr8) (RP 517710).

PERMIAN

- P1: Massive mudstone, siltstone, and minor sandstone and bioclastic limestone (P1) — Castle Cary Mudstone, rocky fossiliferous beds (P1); dominantly bioclastic limestone or siliceous beds (P1); with vertical granule sandstone with rare minor fossils (P1); dominantly mudstone and siltstone with quartzite granule sandstone, and in some places sparse phyllositic mudstone typically near the top of the unit (P1).
- P2: Quartz sandstone, arkose and conglomerate (P2); with rare massive fossils indicated in places (P2) — Abernethy Formation.
- P3: Interbedded conglomerate, sandstone and mudstone; only known from barabole (RP 5017710) and near EP 679723.
- P4: Angular unconformity.

PALEOZOIC

EARLY DEVONIAN-SILURIAN ORDEVICAN (?)

- SD1: Quartzite turbidite sequence of interbedded sandstone and siltstone, with minor mudstone. Horizontal resulting from contact metamorphism by granitic intrusions indicated (SD1).

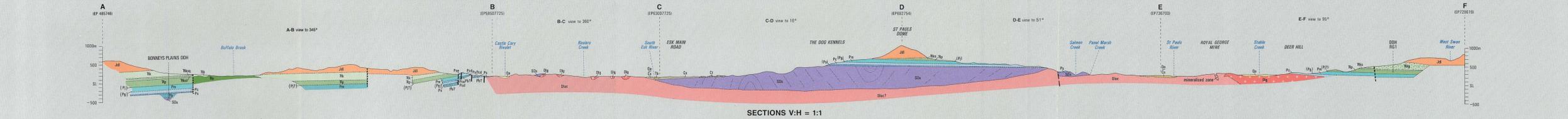
IGNEOUS ROCKS

- Basalt: Basalt.
- JR: Dolerite gneiss indicated in some areas — relatively fine-grained (J), relatively medium-grained (M), relatively coarse-grained (C).
- SD: Contact metamorphism of country rock indicated by vesicite.
- Dip: Highly porphyritic alkali-feldspar granite, with phenocrysts of both quartz and K-feldspar in a fine-grained groundmass; locally grading to a coarse microgranite (Dip).
- Dip2: Equigranular to variably porphyritic alkali-feldspar granite with K-feldspar phenocrysts, usually in a coarse-grained groundmass (Dip2); variety with medium- to fine-grained groundmass indicated (Dip2).

Some areas where underlying rock type inferred from float indicated (e.g. SD1, Dip2).

Geological boundaries and symbols:

- Geological boundary — position approximate.
- Geological boundary — inferred.
- Geological boundary — transitional.
- Alphabetic line.
- Fault — position approximate, downthrown side indicated.
- Fault — inferred.
- Fault — concealed.
- Strike and dip of beds — right way up; overturned; facing unknown.
- Horizontal bedding, right way up.
- Generalized postures direction.
- Strike and dip of primary cleavage vertical.
- Strike and dip of dominant joint set, vertical.
- Trend of apparent lineation of K-feldspar phenocrysts on horizontal surfaces of granitic rock.
- Field station for adjacent readings on map.
- Barabole with identification number, depths in metres to rock types encountered, and float depths.
- Notable small outcrop.
- Notable float occurrence.
- Underground mine (shaft or adit) — abandoned.
- Open cut mine, pit or quarry — operating.
- Open cut mine, pit or quarry — abandoned.
- Alluvial workings — abandoned.
- Prospect — little or no production.



RESPONSIBILITY DIAGRAM

LOCATION MAP

ADJOINING SHEETS

SNOW HILL SHEET 8414S (55)

Geology by A. B. Gilhe, B.Sc. (Senior); S. M. Forsyth, B.Sc.; J. L. Everett, B.Sc. (Senior); C. R. Carter, B.Sc. (Senior); M. L. Matthews, B.Sc. Base map revised from 1:25000 map sheet 8414S, 8415S, 8416S, 8417S, 8418S, 8419S, 8420S, 8421S, 8422S, 8423S, 8424S, 8425S, 8426S, 8427S, 8428S, 8429S, 8430S, 8431S, 8432S, 8433S, 8434S, 8435S, 8436S, 8437S, 8438S, 8439S, 8440S, 8441S, 8442S, 8443S, 8444S, 8445S, 8446S, 8447S, 8448S, 8449S, 8450S, 8451S, 8452S, 8453S, 8454S, 8455S, 8456S, 8457S, 8458S, 8459S, 8460S, 8461S, 8462S, 8463S, 8464S, 8465S, 8466S, 8467S, 8468S, 8469S, 8470S, 8471S, 8472S, 8473S, 8474S, 8475S, 8476S, 8477S, 8478S, 8479S, 8480S, 8481S, 8482S, 8483S, 8484S, 8485S, 8486S, 8487S, 8488S, 8489S, 8490S, 8491S, 8492S, 8493S, 8494S, 8495S, 8496S, 8497S, 8498S, 8499S, 8500S, 8501S, 8502S, 8503S, 8504S, 8505S, 8506S, 8507S, 8508S, 8509S, 8510S, 8511S, 8512S, 8513S, 8514S, 8515S, 8516S, 8517S, 8518S, 8519S, 8520S, 8521S, 8522S, 8523S, 8524S, 8525S, 8526S, 8527S, 8528S, 8529S, 8530S, 8531S, 8532S, 8533S, 8534S, 8535S, 8536S, 8537S, 8538S, 8539S, 8540S, 8541S, 8542S, 8543S, 8544S, 8545S, 8546S, 8547S, 8548S, 8549S, 8550S, 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